

**UNITED STATES
DEPARTMENT OF THE INTERIOR
ENVIRONMENTAL STATEMENT**



88076041

PREPARED BY

THE BUREAU OF LAND MANAGEMENT

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**PROPOSED
WATER CONTINENTAL SHELF
AND GAS LEASE SALE 58A
WESTERN AND CENTRAL
GULF OF MEXICO**

VOLUME 2 OF 2

- 1) Proposed OCS Planning Schedule
- 2) Resource Reports from appropriate Federal Agencies
- 3) Call for Nominations and Comments
- 4) Tentative Tract Selection
- 5) Environmental Analysis (DEIS, Public Hearing, FES)
- 6) Secretarial Issue Document
- 7) Pre-Sale Evaluation
- 8) Lease Sale
- 9) Post-Sale Analysis

The Department's OCS leasing program consists of nine major components:

Most of the information used by government and industry on the hydrocarbon potential of the OCS is acquired by geological and geophysical surveys. These data are collected by specialized firms under permits issued by the Geological Survey. Usually these firms are under contract to either the Survey or one or more oil companies to gather such data. These data are used by the industry for nominating tracts for lease and in the preparation of bids. They are also used by the Department for general sale area identification, tract selection, environmental assessment, and resource evaluation.

During each step of the OCS leasing process, the Bureau coordinates with many agencies both within and outside the Department. Major technical coordination efforts are conducted continually with the Geological Survey. The Survey is also responsible for supervising and regulating exploration, development, and production activities after leases are issued.

The Bureau is charged with responsibility for implementing the leasing objectives of the Outer Continental Shelf Lands Act. The Bureau performs its leasing functions within the goals of: 1) orderly and timely resource development, 2) protection of the environment, and 3) receipt of a fair return.

Under the Outer Continental Shelf Lands Act of 1953, the Department of the Interior is charged with administering mineral development on the Outer Continental Shelf (OCS). In the case of oil and gas development, this involves selection of areas for leasing, supervision of geological and geophysical exploration, fulfillment of the environmental protection requirements of the National Environmental Policy Act of 1969, resource evaluation in determining the sale price, conducting competitive bidding for the resources, as well as supervision of exploratory drilling and production activities on awarded leases. These activities are carried out primarily by two agencies of the Department, the Bureau of Land Management (BLM) and the Geological Survey (GS). Assistance from other agencies in the Department is provided as appropriate.

THE OUTER CONTINENTAL SHELF LEASING SYSTEM

**United States
Department of the Interior
Bureau of Land Management
New Orleans Outer Continental Shelf Office
Environmental Assessment Division
Hale Boggs Federal Building
500 Camp Street
Suite 841
New Orleans, Louisiana 70130**

**(504) 589-6541
FTS 682-6541**

For further information about this proposed lease sale environmental statement, the following individuals may be contacted:

Douglas J. Elvers
Chief, Division of Environmental Assessment
Coordination and Scheduling

Eric J. Wolfe
Environmental Specialist,
Statement Coordinator 58A

John K. Adams
Fisheries Biologist
Air and Water Quality, Coral Areas, Impact Evaluation

Mary Bartz
Environmental Specialist
Cultural Resources

Randolph J. Clement
Community Planner
Transportation, Coastal Zone Management, Land Use

Omar DeWald
Physical Scientist
Pipeline Assessment

Ronald Druva
Economist
Economic Modeling and Evaluations, Industrial
Infrastructure Mapping

Charles W. Hill, Jr.
Biologist
Biological Stipulations, Unique Features

Jesse L. Hunt, Jr.
Oceanographer (Geology)
Geophysics, Geologic and Oceanographic Mapping,
Engineering Hazards, Pipeline Engineering

James A. Kerwin
Environmental Specialist
Pipeline Assessment

Jacob W. Lehman
Fish and Wildlife Biologist
Endangered Species, Critical Wildlife Habitat Areas,
Oil Spill Models

Jack H. Rebman
Oceanographer (Petroleum Geologist)
Geology and Bathymetric Mapping, Geologic Hazards

Villere C. Reggio, Jr.
Outdoor Recreation Planner
Recreation, Cultural Resources, Artificial Reefs,
Recreational Fishing

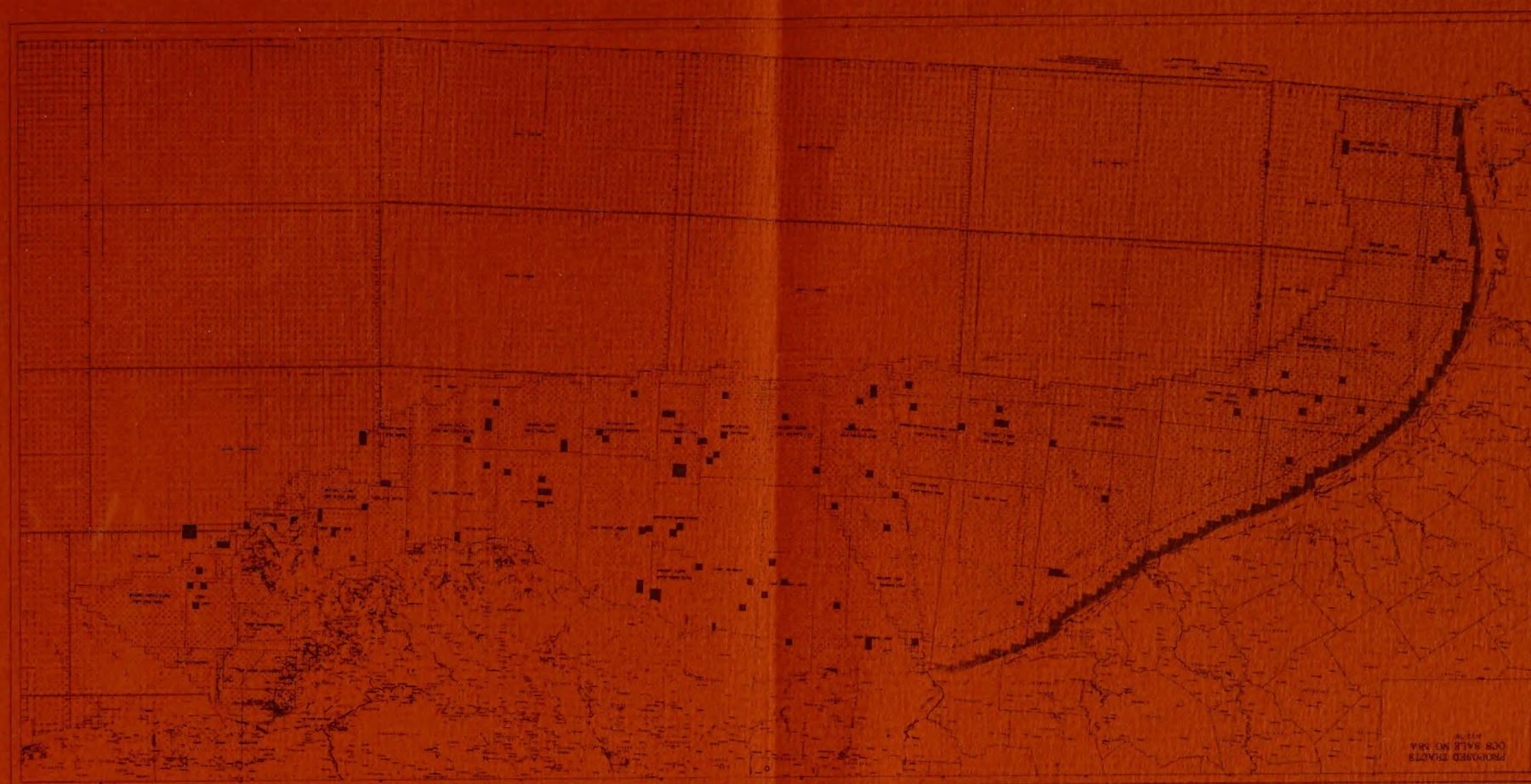
Melissa W. Smith
Oceanographer (Marine Biologist)
Commercial Fisheries

Jay Vest
Natural Resource Specialist
Wildlife, Pipeline Assessment

Cover Drawing — Courtesy of Mary E. Davis

Proposed Lease Sale 58A includes 115 tracts in the western and central Gulf of Mexico. These proposed tracts comprise approximately 220,751 hectares (545,255.24 acres) ranging from 5-183 kilometers (4-117 miles) from shore in water depths of 5-500 meters (20-1,640 feet). Approximately fifty-eight percent of the tracts are gas prone, four percent are oil prone, and thirty-eight percent are both oil and gas prone.

PROPOSED LEASE SALE AREA



#5503107 ID:89076041

PROPOSED OCS SALE 58A



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**ENVIRONMENTAL
STATEMENT**
JANUARY, 1979

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Bureau of Land Management
New Orleans OCS Office
Hale Boggs Federal Building
500 Camp Street, Suite 841
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PROPOSED SALE 58A

A decision to substitute a central and western Gulf of Mexico Sale 58A in lieu of indefinitely postponing South Atlantic Sale 54 was announced by the Secretary of the Interior on April 25, 1978.

Proposed Sale 58A is a Departmental motion. No formal Call for Nominations and Comments was issued through the Federal Register. The blocks recommended in the Supplement to the Joint Recommendation are predominantly derived from blocks nominated in the Call for Proposed Sale 58 (published October 31, 1977 in the Federal Register), but not selected from the tentative tract list.

Each company that submitted nominations to the Call for Proposed Sale 58 was contacted individually. Each was invited to prepare a list of blocks as nominations for Proposed Sale 58A by first, second and third priority. They were further invited to present any data they wished to support their company's rationale for prioritizing their lists.

Coordination Meetings

Meetings are held periodically with appropriate federal and state agencies to exchange technical and environmental information for the proposed lease sale area.

Tract Selection

A notice of tracts selected for this proposed sale was published on May 31, 1978. Selection was made by the

Director of the Bureau following an evaluation of comments received from industry and other government agencies.

Environmental Analysis

A site-specific environmental statement (ES) is prepared for each DCS oil and gas lease sale proposal pursuant to the National Environmental Policy Act of 1969. A Draft Environmental Statement (DES) is being prepared for the proposed Sale 58A for release in January, 1979, a Public Hearing will be held in March, 1979, and a Final Environmental Statement (FES) will be prepared for release in June, 1979. The statements are prepared by a multidisciplinary environmental assessment team in the New Orleans DCS office. Consultation and coordination with interested federal agencies, state and local governments, institutions, groups and individuals is routinely undertaken in preparation of an ES concerning a proposed DCS lease sale. The environmental statement will consider all available data and evaluate potential effects of the proposed sale which might occur during exploration, development, and production of mineral resources. The following topics are specifically addressed in each ES:

- 1) Description of the proposed action
- 2) Description of the environment
- 3) Environmental impacts of the proposed action
- 4) Mitigating measures not included in the proposed action
- 5) Unavoidable adverse environmental effects

- 6) Relationship between local short-term uses of man's environment and maintenance and enhancement of long-term productivity.
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- 8) Alternatives to the proposed action
- 9) Consultation and coordination

The Draft Environmental Statement is made available to the public as announced in the Federal Register and is submitted for review to appropriate federal, state, and local government agencies, private institutions and associations or other public interest groups. Following release of the DES, a Public Hearing will be held to give all interested parties an opportunity to record their views concerning the DES and the proposed sale.

The Final Environmental Statement is prepared after comments on the draft are considered and testimony from the Public Hearing is analyzed. It includes pertinent new information, any changes deemed necessary as a result of comments, and identification of any issues regarding the proposal. The FES is then made available to the public as well as to the Secretary of the Interior for his consideration prior to making a decision on the proposed sale.

Notice of Sale

Pending the Secretary of the Interior's decision to hold the proposed sale following completion of the FES, a notice shall be published in the Federal Register at least

30 days prior to the actual sale. It will set forth particulars as to time, place, and date of sale. This Notice of Sale is tentatively scheduled for August, 1979.

Sale

The date for proposed lease sale 58A is tentatively scheduled for November, 1979. Bids must be accompanied by a check, money order, or bank draft equal to 20 percent of the bid. If a decision is made to accept the bid, it will be announced within 30 days of the sale. If accepted, the bidder must pay the first year's rental, the remainder of the bonus bid, and file a bond within a specified time. The 20 percent of bonus already deposited will be forfeited in the event the bidder does not execute the lease.

PROPOSED OCS PLANNING SCHEDULE

August 1977

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The proposed schedule is used to determine the timing of individual sale procedures. Improved resource and environmental data are continually acquired and analyzed. These data, along with the leasing objectives, current energy situation, availability of technology, and proximity of resources to market are considered in developing the schedule. The leasing objectives constitute the Department's policy for the OCS program and consideration accorded to each varies from one leasing component to another.

An analysis is made in broad terms of when and where potential oil and gas areas should be proposed for leasing. This is done through a review of the national energy situation and the identification of future supply-demand imbalances. Deficits are identified by matching projections of future non-DCS supplies of oil and gas and future OCS production from existing leases with future projected demand.

The different options also are reviewed from the perspective of receipt of fair return. The size and frequency of sales can influence a competitive market which in turn affects the Government's receipt of fair return. Sufficient acreage is offered in each area to ensure that if major structures containing oil and gas are located, they will be explored diligently. The current schedule, released in August, 1977, is flexible and subject to revision as appropriate.

SALE AREA	1977				1978				1979				1980				1981												
	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
01 Cook Inlet		N	S																										
42 N. Atlantic	F	P	N	S																									
43 South Atlantic Georgia Embayment		F	P	N	S																								
45 Gulf of Mexico			F	P	N	S																							
65 Eastern Gulf of Mexico				E	H		F	P	N	S																			
51 Gulf of Mexico				E	H		F	P	N	S																			
49 Mid-Atlantic		T			E	H		F	P	N	S																		
48 Southern California							E	H		F	P	N	S																
58 Gulf of Mexico			C	D	T			E	H		F	P	N	S															
54 South Atlantic - State-Pennell 58A Gulf of Mexico		C		D		T			E	H		F	P	N	S														
Federal/State Beaufort (near shore)		C	D			T				E	H		F		N	S													
55 Gulf of Alaska						C	D		T				E	H		F	P	N	S										
62 Gulf of Mexico							C	D		T				E	H		F	P	N	S									
46 Kodiak														E	H		F	P	N	S									
52 North Atlantic									C	D		T			E	H		F	P	N	S								
53 Central and Northern California			C			D		T								E	H		F	P	N	S							
60 Cook Inlet									C	D		T			E		H		F	P	N	S							
56 South Atlantic Georgia Embayment										C	D		T				E	H		F	P	N	S						
59 Mid-Atlantic													C	D		T			E	H		F	P	N	S				
66 Gulf of Mexico														C	D		T			E	H		F	P	N	S			
57 Bering Norton										C				D		T			E	H				F	P	N	S		

C - Call for Nominations

D - Nominations Due

T - Announcement of Tracts

E - Draft Environmental Statement

H - Public Hearing

F - Final Environmental Statement

P - Proposed Notice of Sale

N - Notice of Sale

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	A	S	O	N
C1 Cook Inlet		N	S	
42 N. Atlantic	F		P	
43 South Atlantic Georgia Embayment			F	
45 Gulf of Mexico				F
65 Eastern Gulf of Mexico				
51 Gulf of Mexico				
49 Mid-Atlantic		T		
48 Southern California				
58 Gulf of Mexico				C
54 South America - State Pleistocene 58A Gulf of Mexico		C		
Federal/State Beaufort (near shore)			C	
55 Gulf of Alaska				
62 Gulf of Mexico				
46 Kodiak				
52 North Atlantic				
53 Central and Northern California				C
60 Cook Inlet				
56 South Atlantic Georgia Embayment				
59 Mid-Atlantic				
66 Gulf of Mexico				
57 Bering Norton				

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August 1977

- Public Hearing
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THE DEPARTMENT OF THE INTERIOR



SUBMARINE PHYSIOGRAPHY OF THE GULF OF MEXICO

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INFORMATION BY
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OTHER SOURCES OF DATA:

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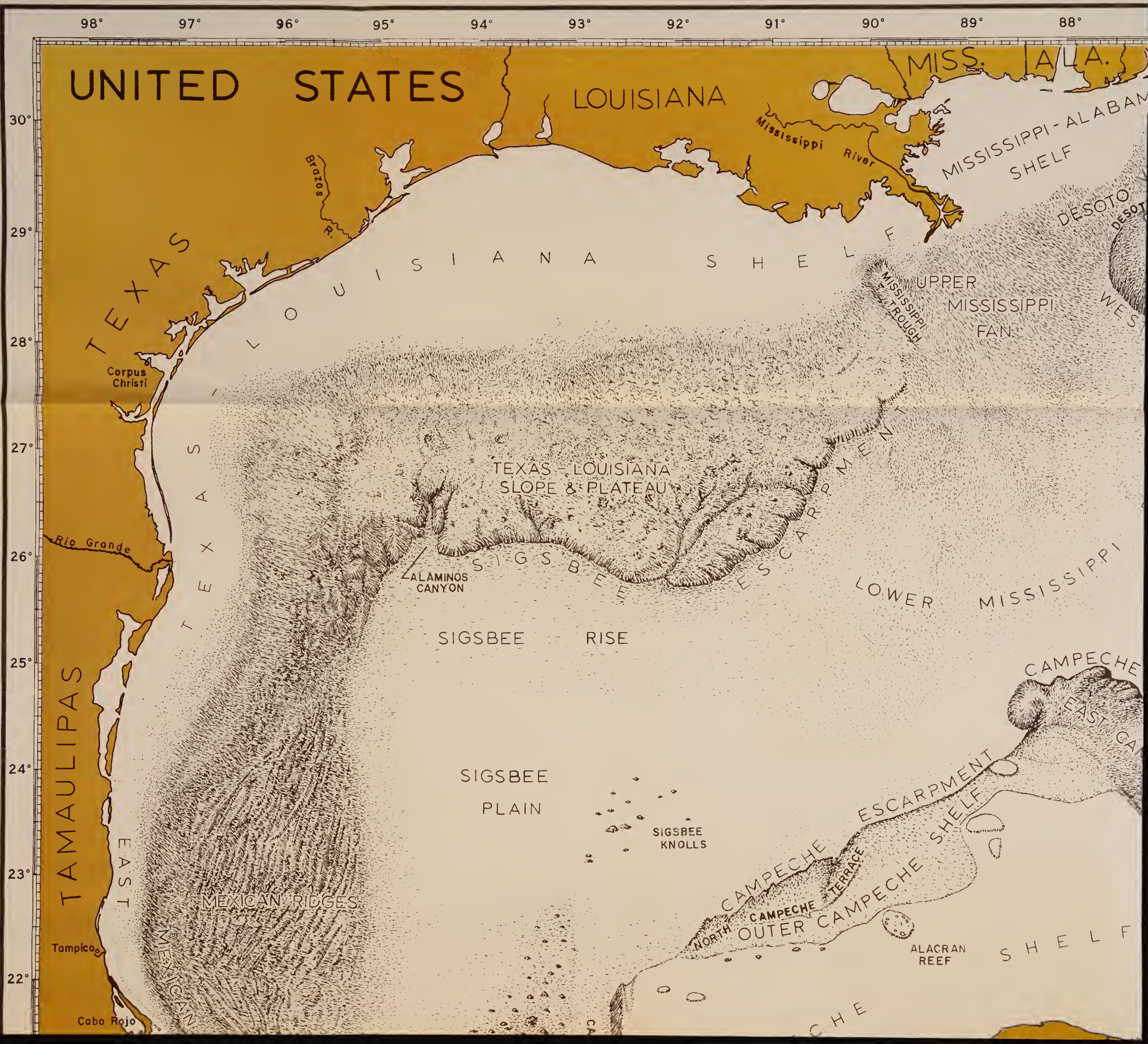
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UNITED STATES

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MISS. ALA.

MISSISSIPPI-ALABAMA SHELF

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DESOTO

DESOTO

Corpus Christi

MISSISSIPPI TROUGH

UPPER MISSISSIPPI FAN

TEXAS-LOUISIANA SLOPE & PLATEAU

ALAMINOS CANYON

SIGSBEE

ESCARPMENT

LOWER MISSISSIPPI

SIGSBEE RISE

SIGSBEE PLAIN

SIGSBEE KNOLLS

CAMPECHE

EAST CAMPECHE

ESCARPMENT

CAMPECHE TERRACE

NORTH CAMPECHE

OUTER CAMPECHE

ALACRAN REEF

S H E L F

MEXICAN RIDGES

TAMAULIPAS

EAST


MEXICAN

Tampico

Cabo Rojo







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UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE
GULF OF MEXICO AND ATLANTIC OCEAN

INDEX OF TOPOGRAPHIC
BATHYMETRIC MAPPING FOR
THE SOUTHEASTERN UNITED STATES OCS AREA
AT A SCALE OF 1:250,000

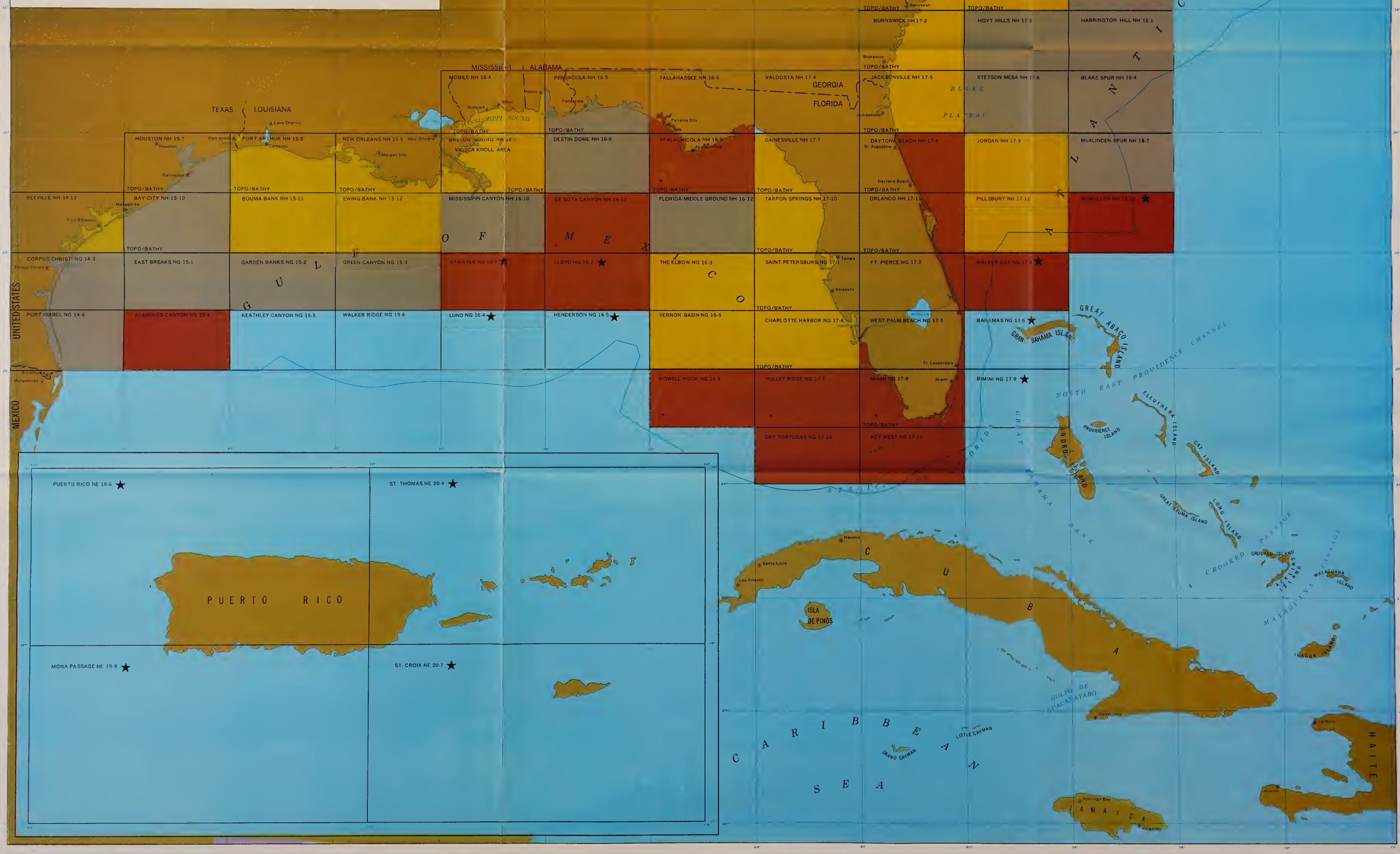
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|---|--|
|  | MAPS SCHEDULED TO BE COMPLETED THRU 1981 |
|  | PRELIMINARY EDITION AVAILABLE |
|  | FINAL EDITION AVAILABLE |
|  | PROPOSED NAME |
|  | 200 MILE FISHERY CONSERVATION ZONE |

NOTES: MAPS PRODUCED FOR THE BUREAU OF LAND MANAGEMENT'S ENVIRONMENTAL ASSESSMENT PROGRAM

TOPOGRAPHY COMPILED BY THE GEOLOGICAL SURVEY






BATHYMETRY AND SHORELINE COMPILED BY NATIONAL OCEAN SURVEY

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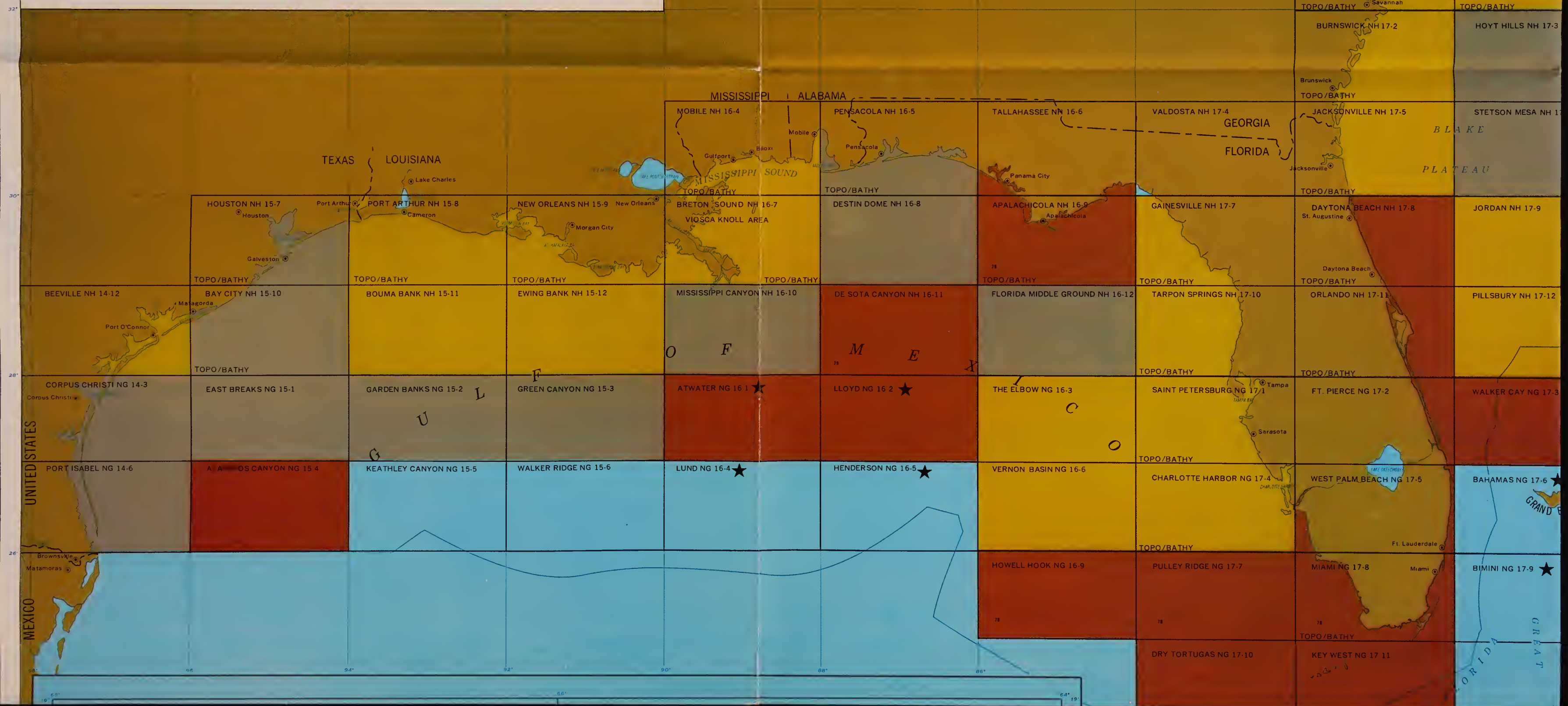
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-  PROPOSED NAME
-  200 MILE FISHERY CONSERVATION ZONE

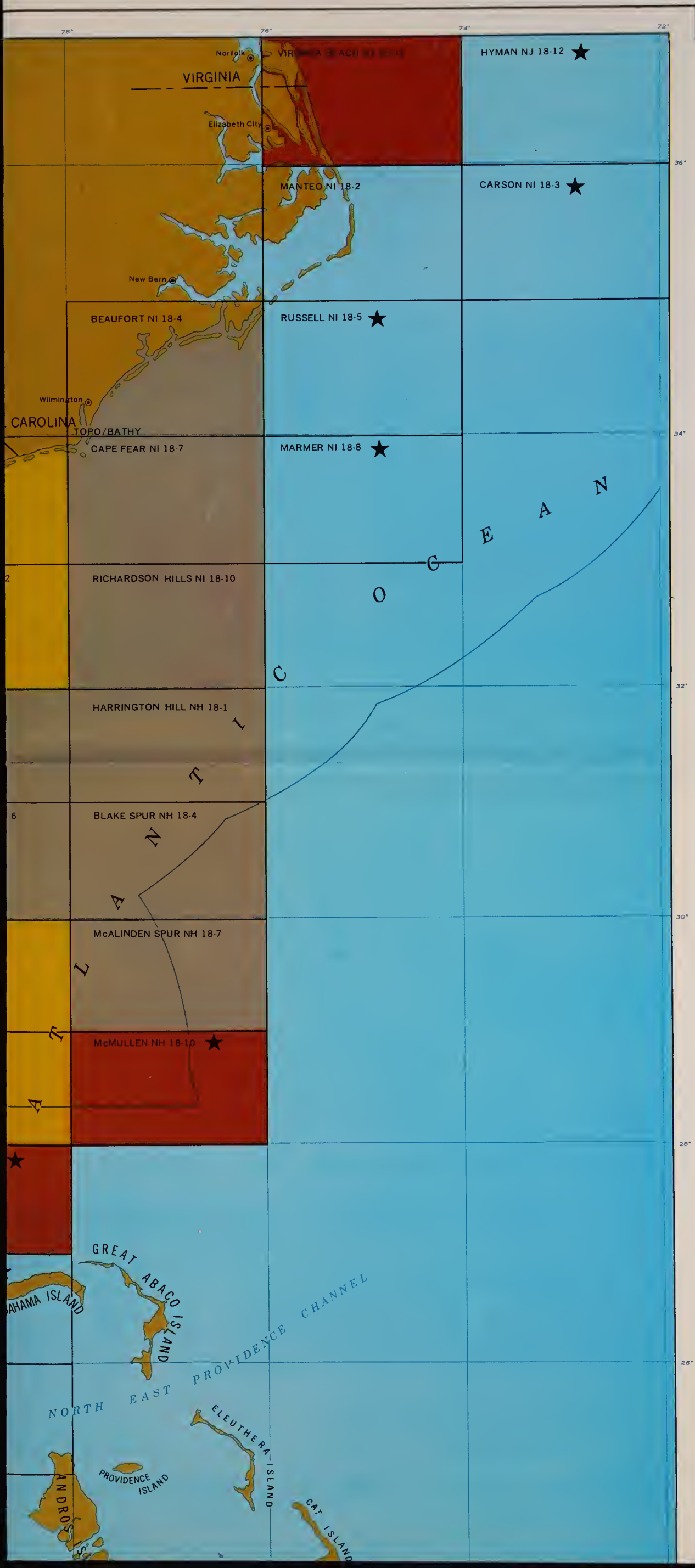
NOTES: MAPS PRODUCED FOR THE BUREAU OF LAND MANAGEMENT'S ENVIRONMENTAL ASSESSMENT PROGRAM
OIL AND GAS LEASING

TOPOGRAPHY COMPILED BY THE GEOLOGICAL SURVEY

BATHYMETRY AND SHORELINE COMPILED BY NATIONAL OCEAN SURVEY

Bureau of Land Management
Library
Denver Service Center





VIRGINIA

Norfolk
Elizabeth City

MANTEO NI 18-2

New Bern

BEAUFORT NI 18-4

RUSSELL NI 18-5

HYMAN NJ 18-12

CARSON NI 18-3

Wilmington
CAROLINA
TOPO/BATHY

CAPE FEAR NI 18-7

MARMER NI 18-8

RICHARDSON HILLS NI 18-10

HARRINGTON HILL NH 18-1

BLAKE SPUR NH 18-4

McALINDEN SPUR NH 18-7

McMULLEN NH 18-10

GREAT ABACO ISLAND

BAHAMA ISLAND

NORTH ANDROS

PROVIDENCE ISLAND

ELEUTHERA ISLAND

CAT ISLAND

PROVIDENCE CHANNEL

PUERTO RICO NE 19-6 ★

ST. THOMAS NE 20-4 ★

PUERTO RICO

MONA PASSAGE NE 19-9 ★

ST. CROIX NE 20-7 ★

ISLA
DE PINOS

C A R I B B E A N
S E A
LITTLE CAYMAN

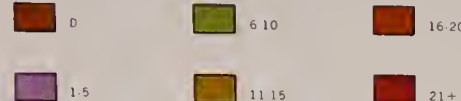
S T A I L E



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE
GULF OF MEXICO AND ATLANTIC OCEAN
SELECTED HURRICANES AFFECTING THE SOUTHERN UNITED STATES OCS AREA 1954-1977

- | | | |
|-------------------|-------------------|---------------------|
| 1 Carol 8/25/54 | 13 Donna 8/29/60 | 25 Camille 8/14/69 |
| 2 Edna 9/2/54 | 14 Ethel 9/14/60 | 26 Gertie 9/6/69 |
| 3 Hazel 10/5/54 | 15 Carla 9/3/61 | 27 Laura 10/17/69 |
| 4 Connie 8/15/55 | 16 Ginny 10/10/63 | 28 Celia 7/31/70 |
| 5 Diane 8/7/55 | 17 Cleo 8/20/64 | 29 Euth 9/5/71 |
| 6 Ione 9/10/55 | 18 Dora 8/28/64 | 30 Ginger 9/6/71 |
| 7 Betsy 8/8/56 | 19 Hilda 9/28/64 | 31 Carmen 8/29/74 |
| 8 Audrey 6/25/57 | 20 Isbell 10/8/64 | 32 Caroline 8/24/75 |
| 9 Dany 8/24/58 | 21 Betsy 9/27/65 | 33 Eloise 9/13/75 |
| 10 Ella 8/30/58 | 22 Alma 6/4/66 | 34 Gladys 9/22/75 |
| 11 Helene 9/21/58 | 23 Inez 9/21/66 | 35 Belle 8/6/76 |
| 12 Grace 9/20/59 | 24 Beulah 9/5/67 | 36 Anita 8/29/77 |

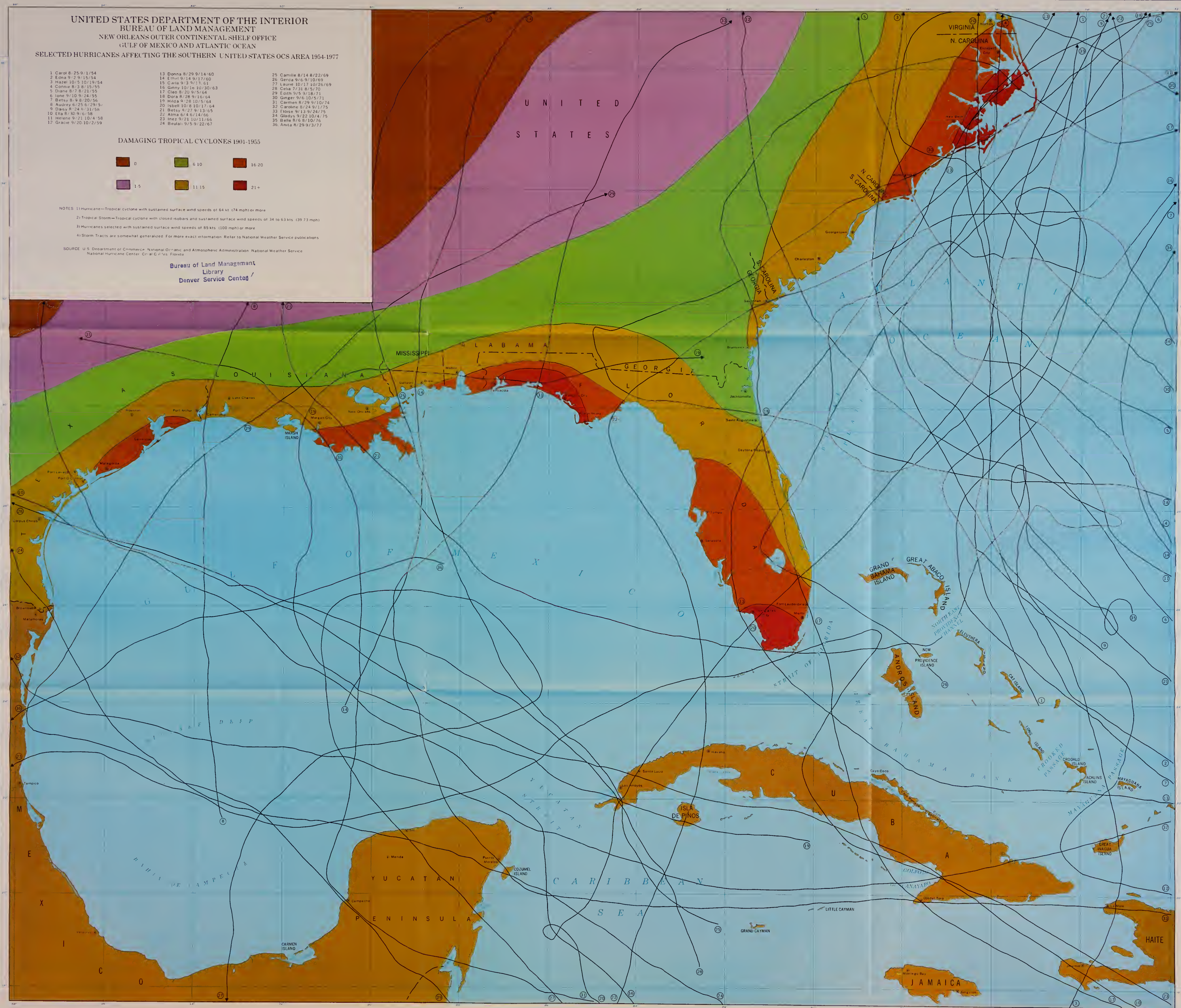
DAMAGING TROPICAL CYCLONES 1901-1955



NOTES: 1) Hurricane—Tropical cyclone with sustained surface wind speeds of 64 kt (74 mph) or more.
2) Tropical Storm—Tropical cyclone with closed isobars and sustained surface wind speeds of 34 to 63 kts (39 to 73 mph).
3) Hurricanes selected with sustained surface wind speeds of 85 kts (100 mph) or more.
4) Storm Tracks are somewhat generalized. For more exact information, refer to National Weather Service publications.

SOURCE: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service, National Hurricane Center, Coral Gables, Florida.

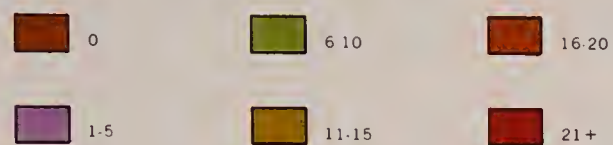
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Denver Service Center



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE
GULF OF MEXICO AND ATLANTIC OCEAN
SELECTED HURRICANES AFFECTING THE SOUTHERN UNITED STATES OCS AREA 1954-1977

- | | | |
|-------------------------|--------------------------|---------------------------|
| 1. Carol 8/25-9/1/54 | 13. Donna 8/29-9/14/60 | 25. Camille 8/14-8/22/69 |
| 2. Edna 9/2-9/15/54 | 14. Ethel 9/14-9/17/60 | 26. Gerda 9/6-9/10/69 |
| 3. Hazel 10/5-10/19/54 | 15. Carla 9/3-9/13/61 | 27. Laurie 10/17-10/26/69 |
| 4. Connie 8/3-8/15/55 | 16. Ginny 10/15-10/30/63 | 28. Celia 7/31-8/5/70 |
| 5. Diane 8/7-8/21/55 | 17. Cleo 8/20-9/5/64 | 29. Edith 9/5-9/18/71 |
| 6. Ione 9/10-9/24/55 | 18. Dora 8/28-9/16/64 | 30. Ginger 9/6-10/5/71 |
| 7. Betsy 8/9-8/20/56 | 19. Hilda 9/28-10/5/64 | 31. Carmen 8/29-9/10/74 |
| 8. Audrey 6/25-6/29/57 | 20. Isbell 10/8-10/17/64 | 32. Caroline 8/24-9/1/75 |
| 9. Daisy 8/24-8/31/58 | 21. Betsy 8/27-9/13/65 | 33. Eloise 9/13-9/24/75 |
| 10. Ella 8/30-9/6/58 | 22. Alma 6/4-6/14/66 | 34. Gladys 9/22-10/4/75 |
| 11. Helene 9/21-10/4/58 | 23. Inez 9/21-10/11/66 | 35. Belle 8/6-8/10/76 |
| 12. Gracie 9/20-10/2/59 | 24. Beulah 9/5-9/22/67 | 36. Anita 8/29-9/3/77 |

DAMAGING TROPICAL CYCLONES 1901-1955

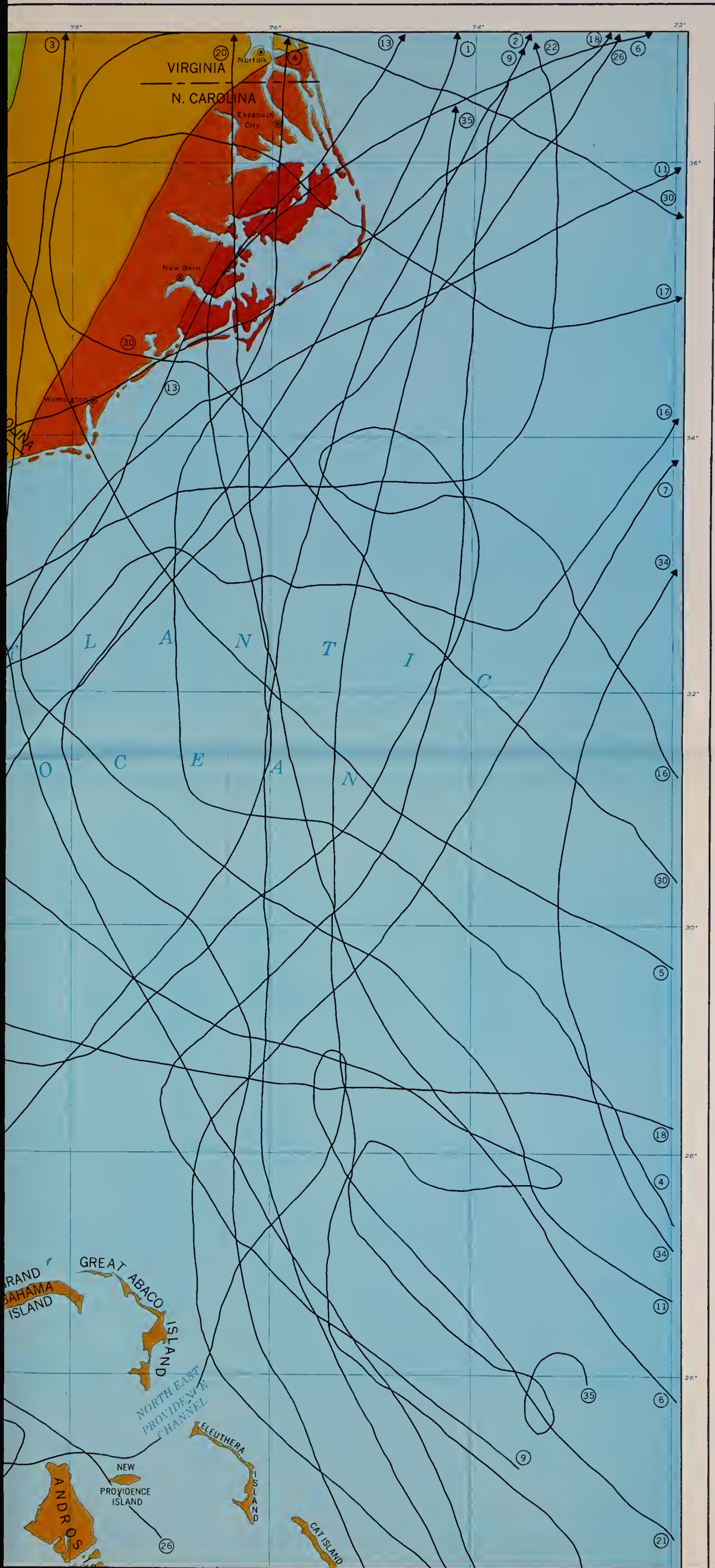


- NOTES: 1) Hurricane—Tropical cyclone with sustained surface wind speeds of 64 kt (74 mph) or more
2) Tropical Storm—Tropical cyclone with closed isobars and sustained surface wind speeds of 34 to 63 kts (39-73 mph)
3) Hurricanes selected with sustained surface wind speeds of 85 kts (100 mph) or more
4) Storm Tracks are somewhat generalized. For more exact information, Refer to National Weather Service publications

SOURCE: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service, National Hurricane Center, Coral Gables, Florida

Bureau of Land Management
Library
Denver Service Center

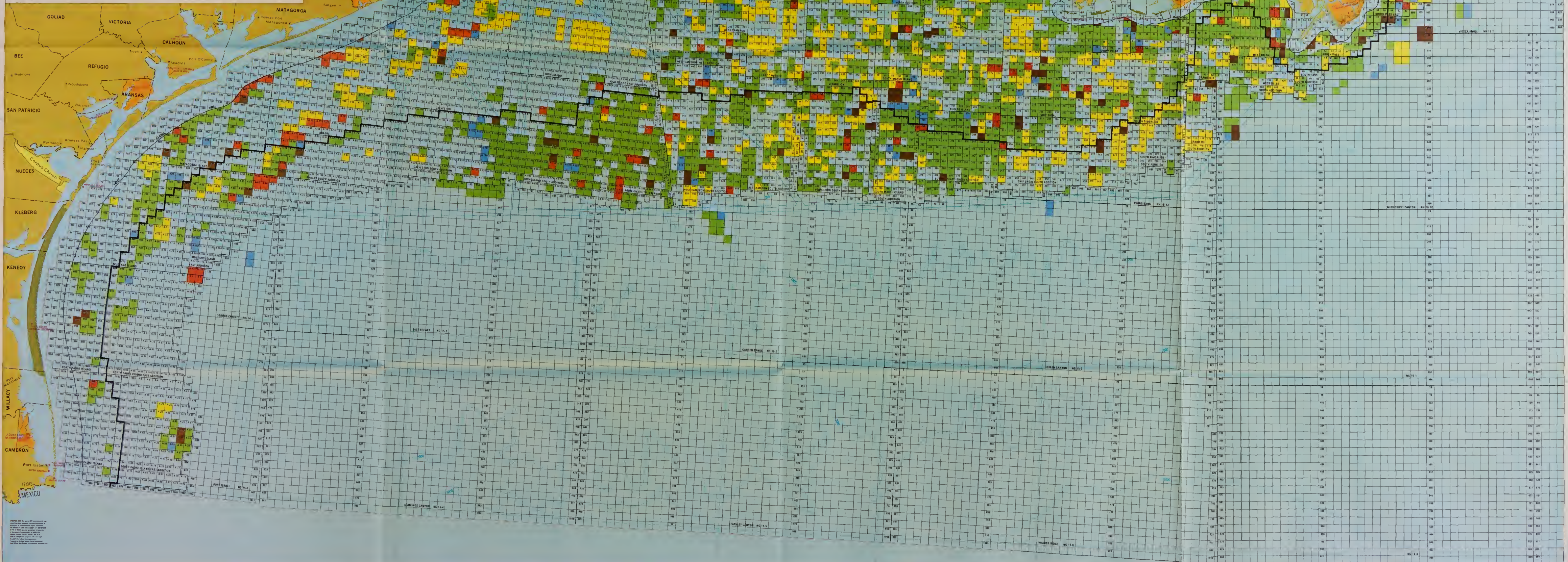
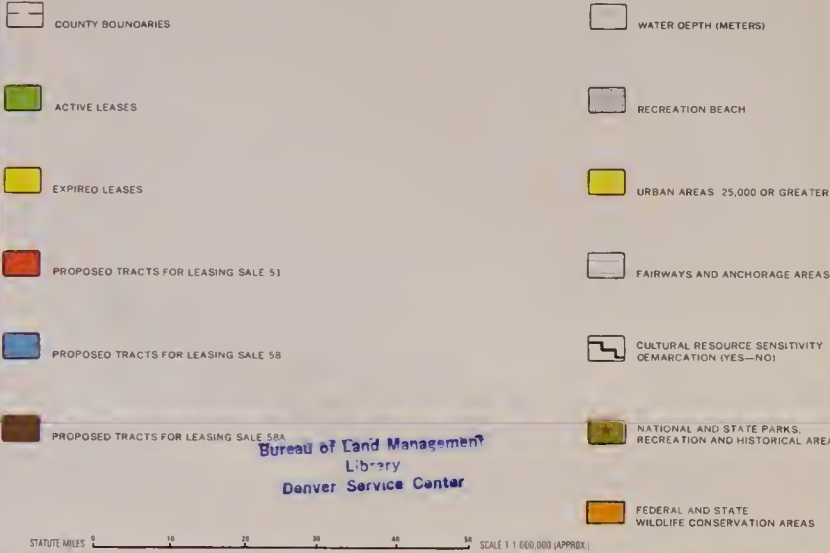






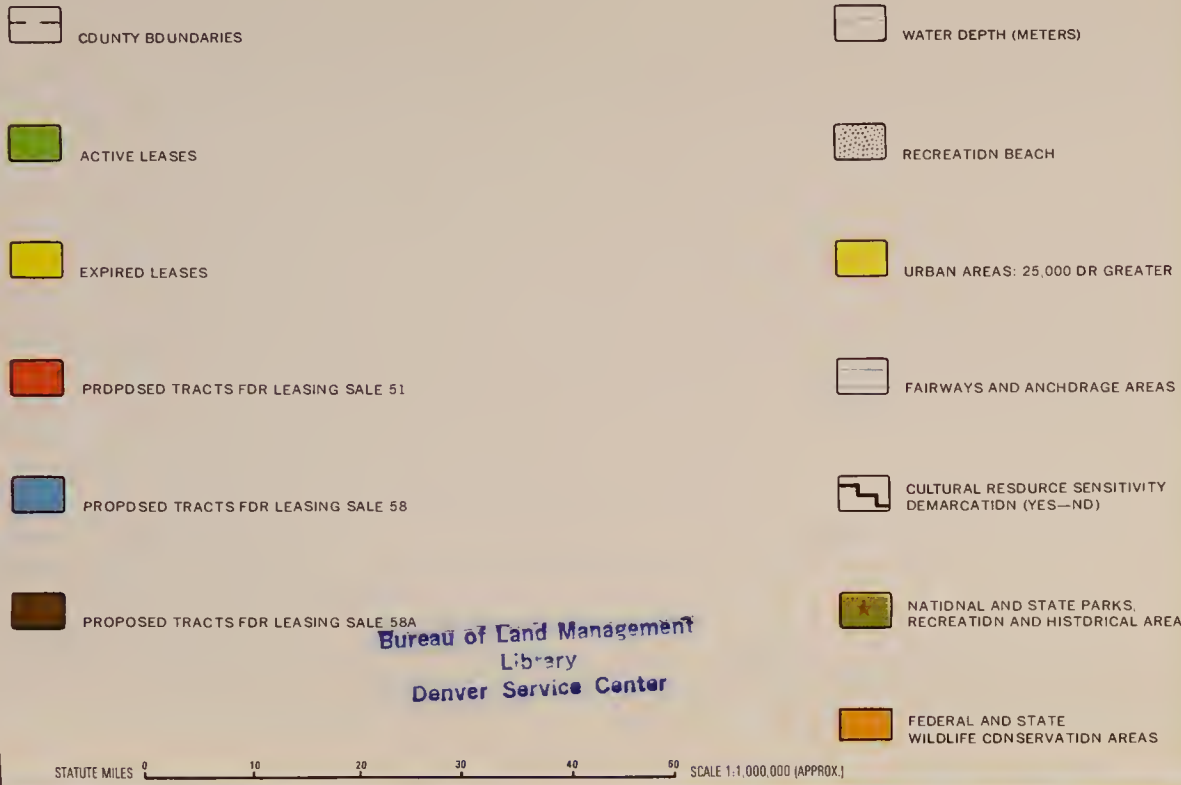


UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE
WESTERN AND CENTRAL GULF OF MEXICO
LEASE STATUS AND MAJOR PUBLIC AREAS



UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE
WESTERN AND CENTRAL GULF OF MEXICO
LEASE STATUS AND MAJOR PUBLIC AREAS

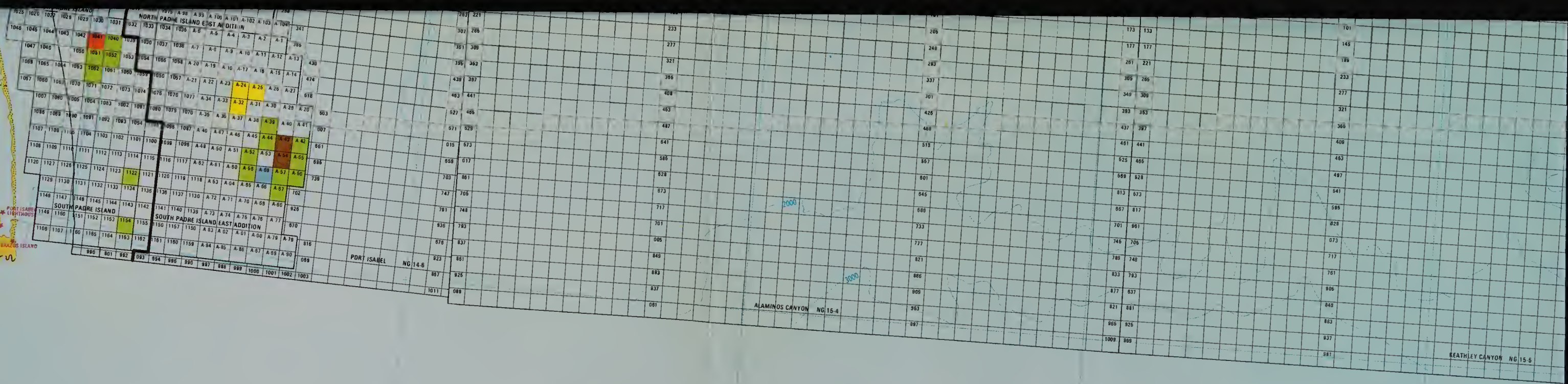
VISUAL NO. 1

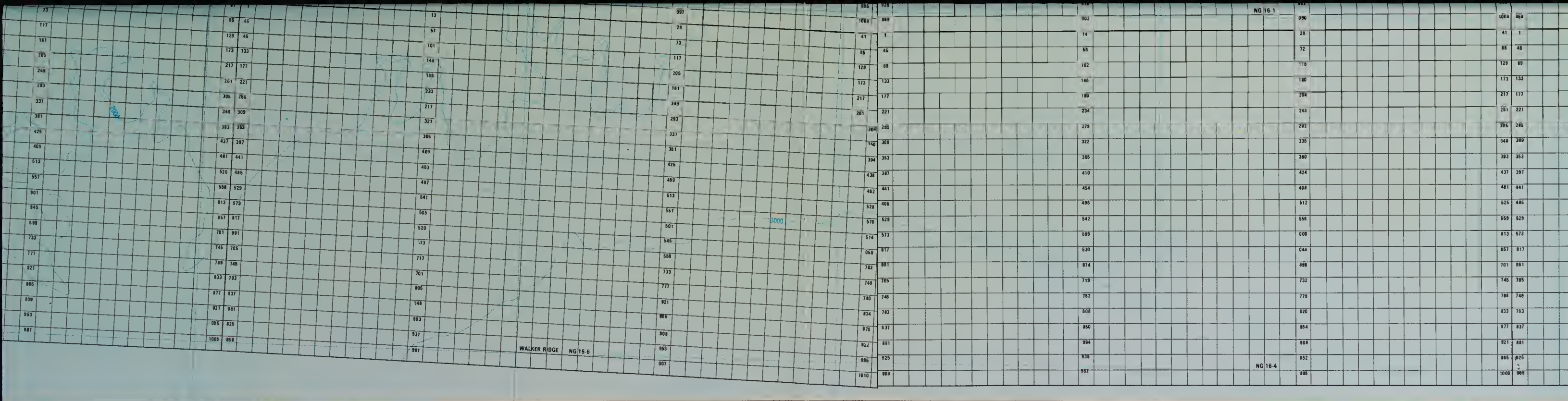






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UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE
WESTERN AND CENTRAL GULF OF MEXICO
GEOLOGIC AND GEOMORPHIC FEATURES

VISUAL NO. 2

COUNTY BOUNDARIES

WATER DEPTH (METERS)

QUATERNARY	SLOPE		SHELF		COASTAL		UPLANDS	
	QSW	Qmc	Qsi	Qr	Qsi	Qr	Qsi	Qr
HOLOCENE	SIGSBEE WEDGE	MISSISSIPPI CONE	Qsi	Qr	Qsi	Qr	Qsi	Qr
			Qsi	Qr	Qsi	Qr	Qsi	Qr
PLEISTOCENE	Qam	Qsp	Qpe	Qpe	Qpe	Qpe	Qpe	Qpe
			Qpe	Qpe	Qpe	Qpe	Qpe	Qpe
TERTIARY								
PLIOCENE								
MIOCENE								
PRODUCTION TRENDS								
PLEISTOCENE								
PLIO-PLEISTOCENE								
PLIOCENE								
MIOCENE								
OLIGOCENE								
CRETACEOUS								

SOURCES:

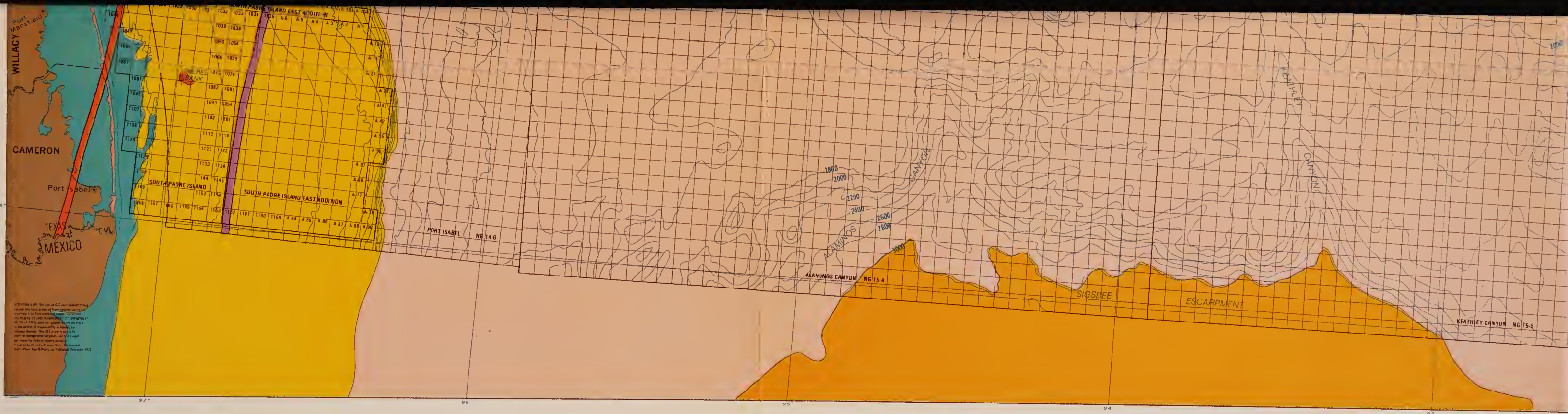
AMERICAN ASSOCIATION OF PETROLEUM
GEOLOGISTS. 1972. TECTONIC MAP
OF GULF COAST REGION.AMERICAN ASSOCIATION OF PETROLEUM
GEOLOGISTS. 1970. BATHYMETRIC
MAP NORTHERN GULF OF MEXICO.BICKER, ALVIN R., JR. GEOLOGIC
MAP OF MISSISSIPPI.BUSCH, R.E. JR., W.C. WARD, H.C.
SKINNER AND E.B. KEMP III, 1974
PHYSIOGRAPHIC MAP OF THE
ATOKA-ALABAMA BASIN AND A PORTION
OF THE LOWER RED RIVER VALLEY,
LOUISIANA.LAFAYETTE GEOLOGICAL SOCIETY. 1973.
PRODUCTION TRENDS MAP.LAFAYETTE GEOLOGICAL SOCIETY. 1973.
TECTONIC MAP OF LOUISIANA.LEBLANC, RUFUS J. 1948. GEOLOGIC
MAP OF LOUISIANA, MODIFIED BY
E.B. KEMP III.REED, P.C. 1971. GEOLOGIC MAP
OF BALDWIN COUNTY, ALABAMA.RENFRO, H.B. 1973. AAPG U.S.
GEOLOGICAL HIGHWAY MAP FOR
TEXAS, NO. 7. AAPG, P.O. BOX
979, TULSA, OKLAHOMA 74101.WALLACE, W.E. 1966. FAULT AND
SALT MAP OF SOUTH LOUISIANA.SOUTH TEXAS HARD BANKS
HYPER-SALINE BASIN
SALT DOME AREAS
SHALE OIL-PRIME AREAS

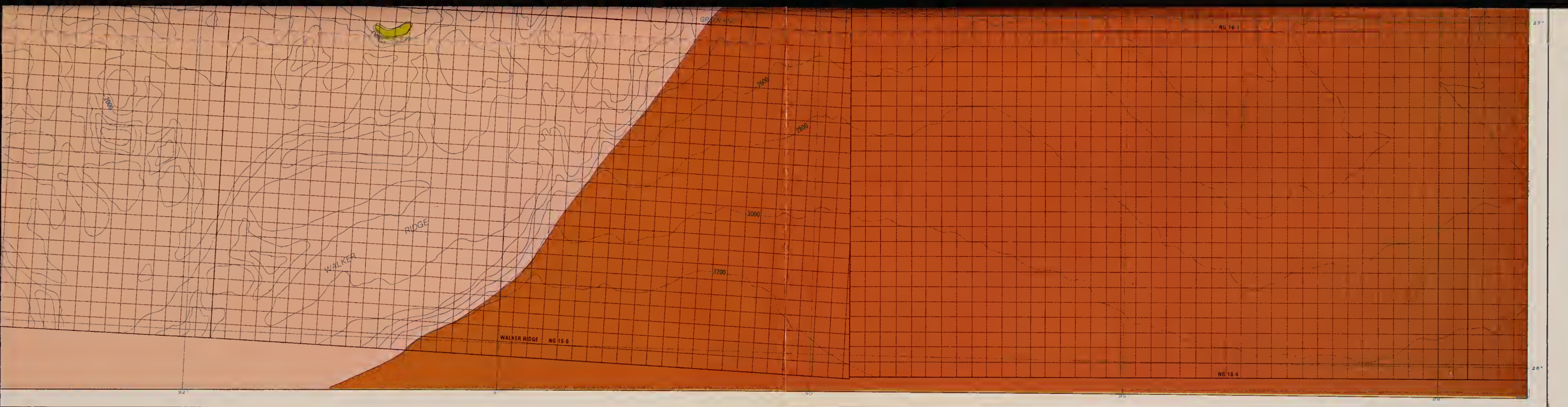
STATUTE MILES 0 10 20 30 40 50 SCALE 1:1,000,000 (APPROX.)

Prepared in Conjunction With Proposed OCS Lease Sales









27°

26°

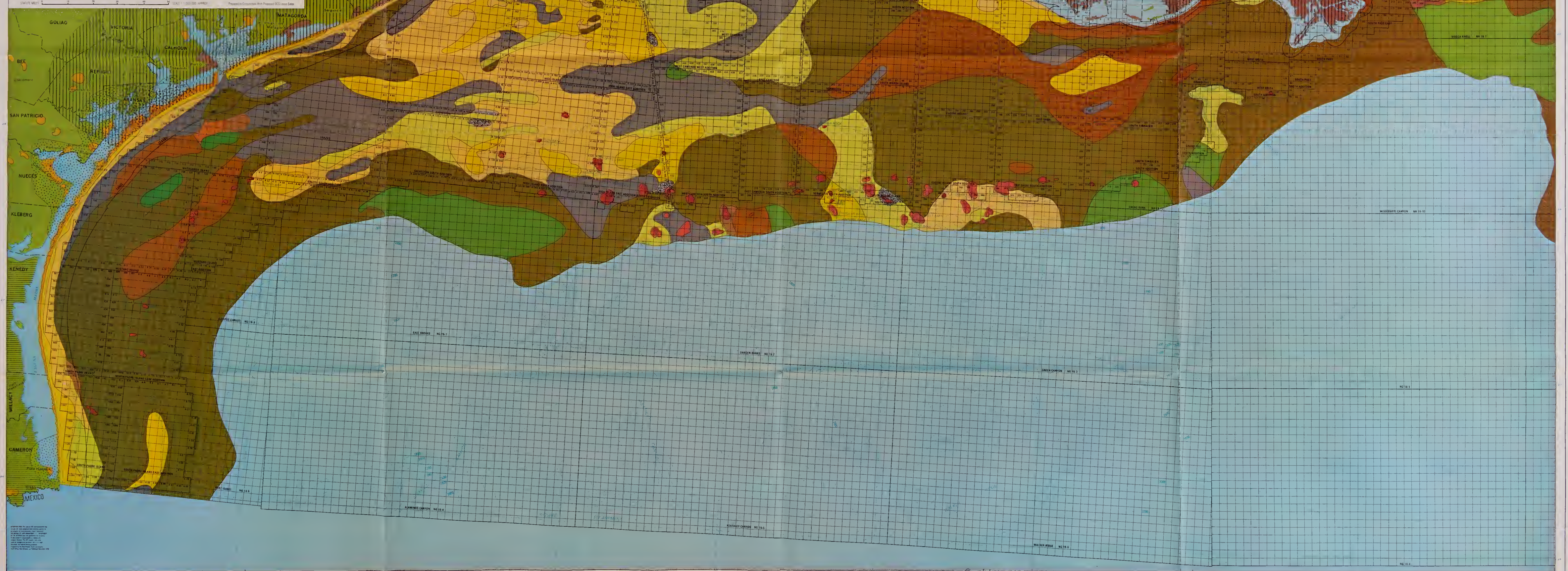
UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE
WESTERN AND CENTRAL GULF OF MEXICO
BOTTOM SEDIMENTS, VEGETATION AND ENDANGERED WILDLIFE

VISUAL NO. 3

- | | |
|---------------------------|----------------------------|
| COUNTY BOUNDARIES | WATER DEPTH (METERS) |
| URBANIZED AREAS | WHOOPING CRANE |
| SWAMP AND MARSHLAND | RED COCKADED WOODPECKER |
| COASTAL STRAND | MISSISSIPPI SANDHILL CRANE |
| OTHER TYPES OF VEGETATION | OCELOT AND JAGUARUNDI |
| HARD BANKS | BALD EAGLE |
| BROWN PELICAN | RED WOLF |



SOURCES: GRADY, J. R. 1970. CHART OF DISTRIBUTION OF SEDIMENT TYPES—NORTHWEST GULF OF MEXICO. NOAA NMFS GULF COASTAL FISHERIES CENTER. ALABAMA DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES. MONTGOMERY, ALA. LOUISIANA WILDLIFE AND FISHERIES COMMISSION. NEW ORLEANS, LA. MISSISSIPPI GAME AND FISH COMMISSION. JACKSON, MISS. TEXAS PARKS AND WILDLIFE DEPARTMENT. AUSTIN, TEX. U.S. DEPARTMENT OF THE INTERIOR. FISH AND WILDLIFE SERVICE. WASHINGTON, D.C. U.S. DEPARTMENT OF COMMERCE. NOAA. NAME. WASHINGTON, D.C. MISSISSIPPI RIVER TO GALVESTON. U.S. DEPT. OF COMMERCE. NOAA. NATIONAL OCEAN SURVEY. C & GS #12164 (1972). GALVESTON TO RIO GRANDE. U.S. DEPT. OF COMMERCE. NOAA. NATIONAL OCEAN SURVEY. C & GS #12174 (1972). OUTER CONTINENTAL SHELF RESOURCE MANAGEMENT MAP. U.S. DEPT. OF COMMERCE. NOAA. GULF OF MEXICO. 1:500,000. CHART. NO. 14.3. PORT LARSEN. 1:500,000. EAST BREAKS. BAY CITY. 1:500,000. 1:500,000. GREEN CANYON NEW ORLEANS #11 AND 13. MISSISSIPPI CANYON. MOBILE. SOUTH. #13 AND 15. 1:500,000. TEXAS GULF COAST & OFFSHORE FISHING CHART. GALVESTON TO MATAGORDA. GALVESTON TO ARANSAS PASS. MATAGORDA TO BROWNSVILLE. GALVESTON TO MORGAN CITY. LA. 1:500,000. TEXAS GULF COAST OFFSHORE FISHING CHART. SABINE PASS TO RIO GRANDE. TIDE WATER FISHING. PUB. INC. 1972/20.



UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE
WESTERN AND CENTRAL GULF OF MEXICO
BOTTOM SEDIMENTS, VEGETATION AND ENDANGERED WILDLIFE

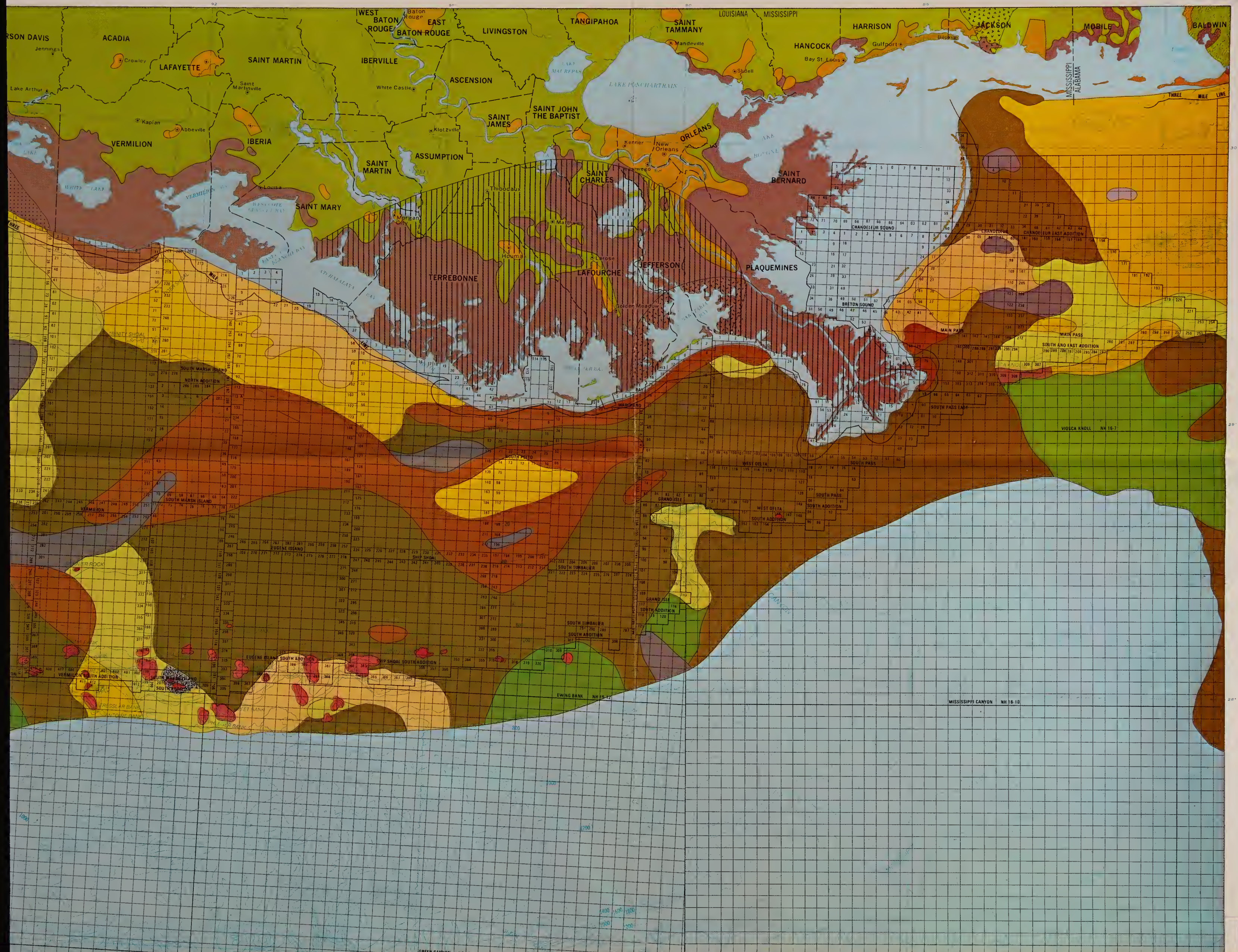


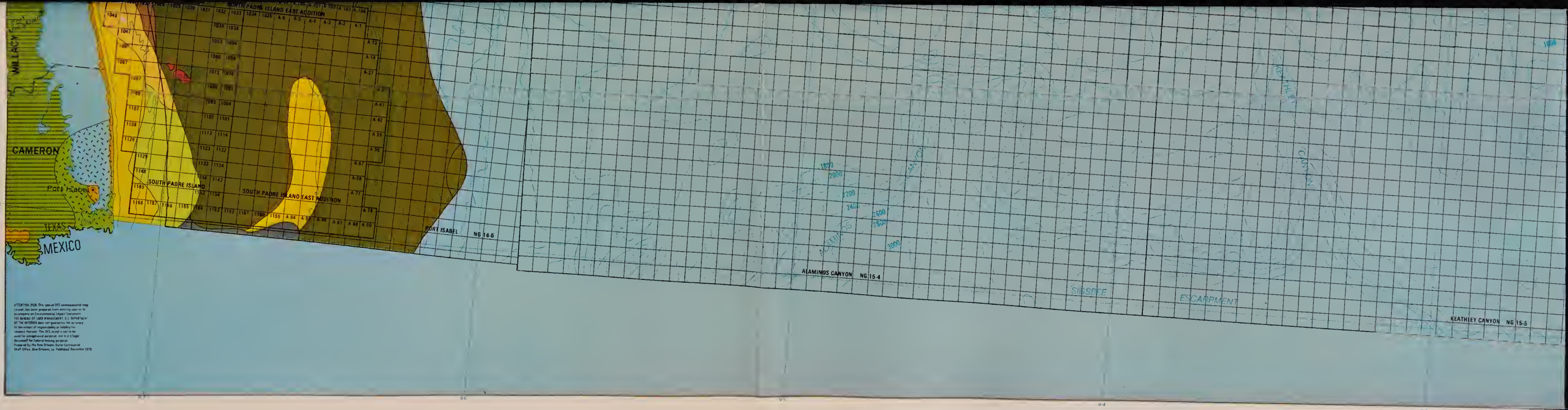
GRAVELLY SAND

SOURCES: GRADY, J. R., 1970. CHART OF DISTRIBUTION OF SEDIMENT TYPES—NORTHERN GULF OF MEXICO. NOAA, NMFS, GULF COASTAL FISHERIES CENTER.
ALABAMA DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES, MONTGOMERY, ALA.
LOUISIANA WILDLIFE AND FISHERIES COMMISSION, NEW ORLEANS, LA.
MISSISSIPPI GAME AND FISH COMMISSION, JACKSON, MISS.
TEXAS PARKS AND WILDLIFE DEPARTMENT, AUSTIN, TEX.
U.S. DEPARTMENT OF THE INTERIOR, FISH AND WILDLIFE SERVICE, WASHINGTON, D.C.
U.S. DEPARTMENT OF COMMERCE, NOAA, NMFS, WASHINGTON, D.C.
MISSISSIPPI RIVER TO GALVESTON, U.S. DEPT. OF COMMERCE, NOAA, NATIONAL OCEAN SURVEY, C & GS #1116A (1972).
GALVESTON TO RIO GRANDE, U.S. DEPT. OF COMMERCE, NOAA, NATIONAL OCEAN SURVEY, C & GS #117A (1972).
OUTER CONTINENTAL SHELF RESOURCE MANAGEMENT MAP, U.S. DEPT. OF COMMERCE, NOAA, GARDEN BANKS #NG 15-2 (OCS); CORPUS CHRISTI #NG 14-3; PORT ISABEL #NG 14-6; EAST BREAKS (BAY CITY) #NG 15-1; GREEN CANYON (NEW ORLEANS) #1; MISSISSIPPI CANYON (MOBILE SOUTH #2) #NH 16-10 (1975).
TEXAS GULF COAST & OFFSHORE FISHING CHART, GALVESTON TO MATAGORDA, GALVESTON TO ARANSAS PASS, MATAGORDA TO BROWNSVILLE, GALVESTON TO MORGAN CITY, LA. (1972).
TEXAS GULF COAST OFFSHORE FISHING CHART, SABINE PASS TO RIO GRANDE, TIDEWATER FISHING PUB., INC. (1972).

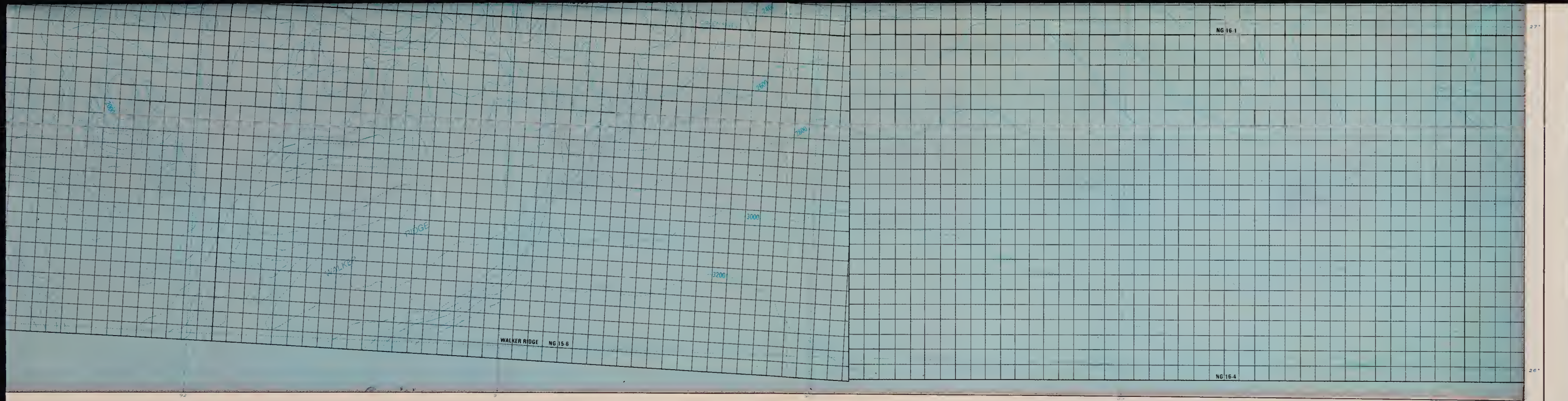
STATUTE MILES 0 10 20 30 40 50 SCALE 1:1,000,000 (APPROX.) Prepared in Conjunction With Proposed OCS Lease Sales







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Prepared by the Texas Ocean Survey Committee
Staff Office, San Antonio, La. Published November 1979



UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE
WESTERN AND CENTRAL GULF OF MEXICO

VISUAL NO. 4

RECREATION, CULTURAL AND UNDERSEA FEATURES

- | | | |
|---|---|---|
| COUNTY BOUNDARIES | STATE WILDLIFE AREAS | WATER DEPTH (METERS) |
| NATIONAL WILDLIFE REFUGES | UNDEVELOPED OR PROPOSED STATE PARK SYSTEM AREAS | MAJOR FISHING PIERS |
| NATIONAL PARK SYSTEM AREAS | ORNAMENTAL GARDENS | REMNANT COASTAL BANKS |
| NATIONAL WILDERNESS AREAS | RECREATIONAL BEACHES | PROTECTED AREAS OF BIOLOGICAL SIGNIFICANCE |
| REGISTERED AND PROPOSED NATIONAL NATURAL LANDMARKS | NUMBER OF REPORTED ARCHAEOLOGICAL SITES PER COUNTY OR PARISH | DESIGNATED OFFSHORE ARTIFICIAL FISHING REEFS |
| NATIONAL AUDUBON SOCIETY SANCTUARIES | WATERWAYS DESIGNATED OR CONSIDERED FOR WILDLIFE SPECIFIC OR RECREATION CLASSIFICATION | REPORTED SHIPWRECKS |
| SITES LISTED UNDER THE NATIONAL REGISTER OF HISTORIC PLACES | OFFSHORE PLATFORMS | MARINE CULTURAL RESOURCE PROBABILITY (HIGH LOW) |
| STATE PARK SYSTEM AREAS | | |

NOTE: SYMBOLS WITH NUMBERS AND LETTERS ARE KEYS ON BACK OF VISUAL

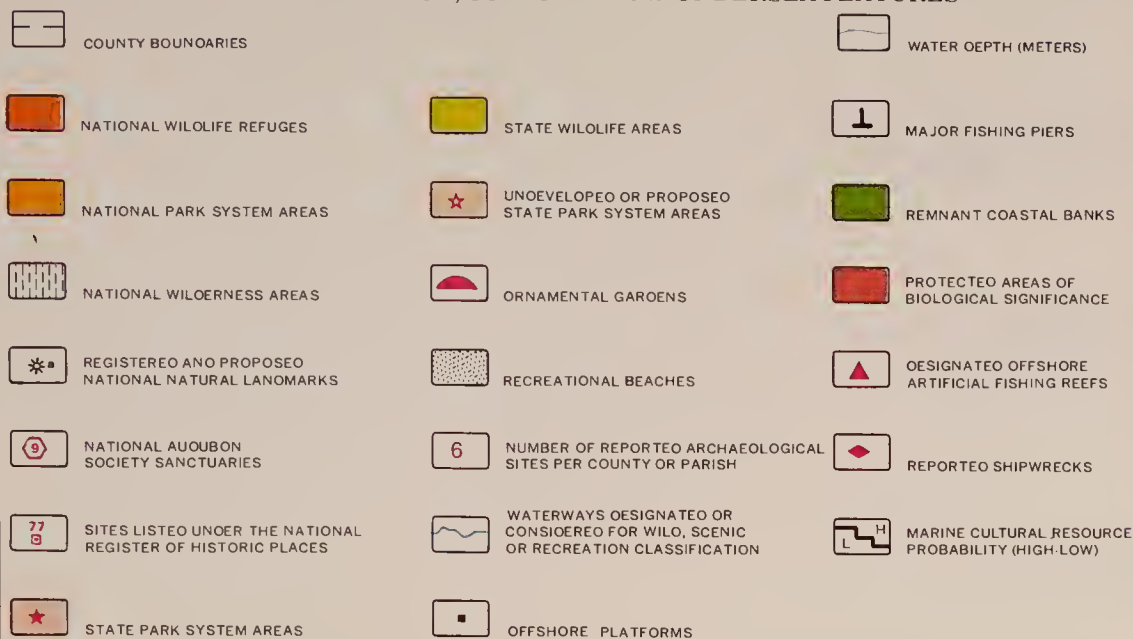
STATUTE MILES 1 2 3 4 5 6 7 8 9 10 SCALE 1:100,000 (APPROX) Prepared in Conjunction With Proposed OCS Lease Sales



UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE
WESTERN AND CENTRAL GULF OF MEXICO

VISUAL NO. 4

RECREATION, CULTURAL AND UNDERSEA FEATURES

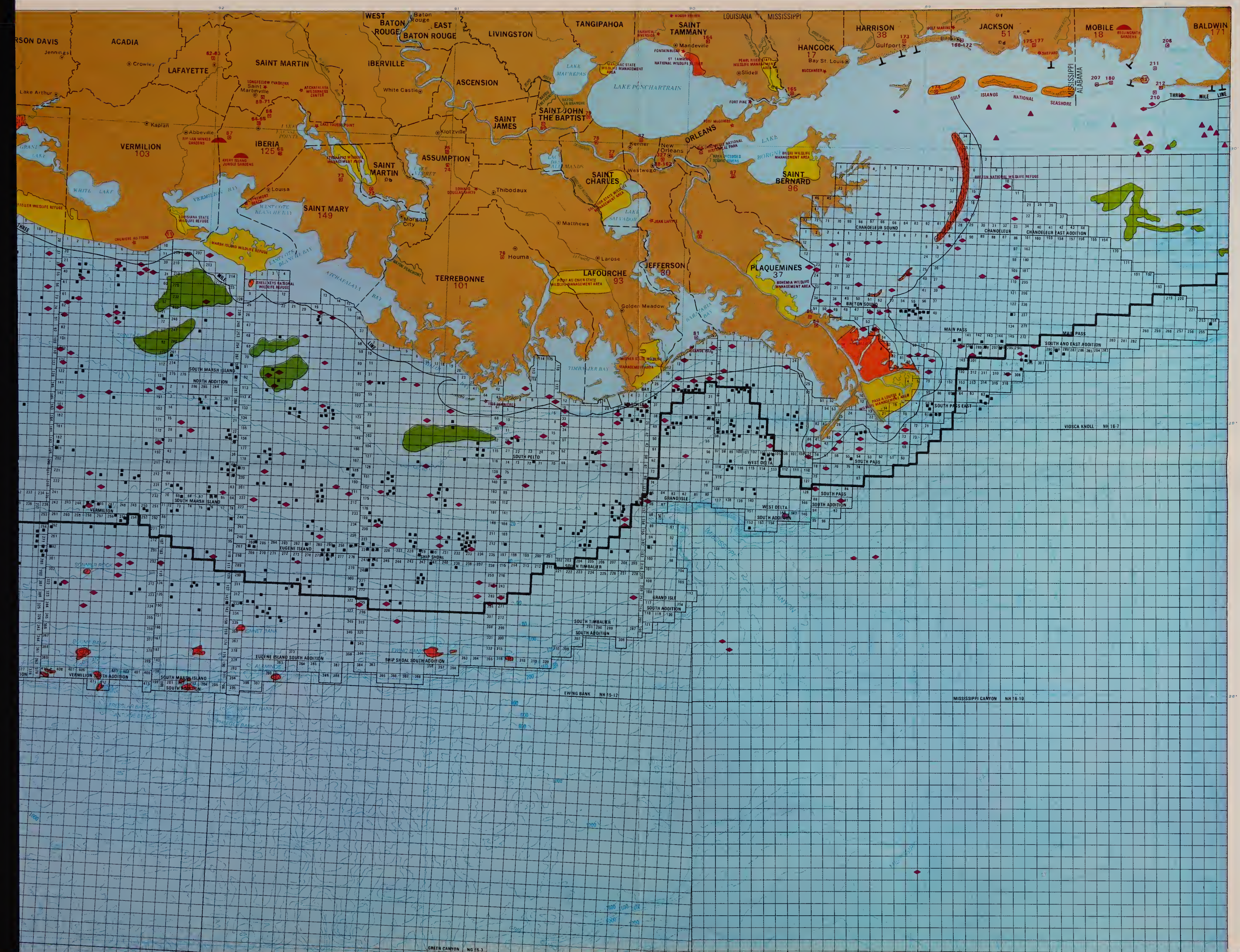


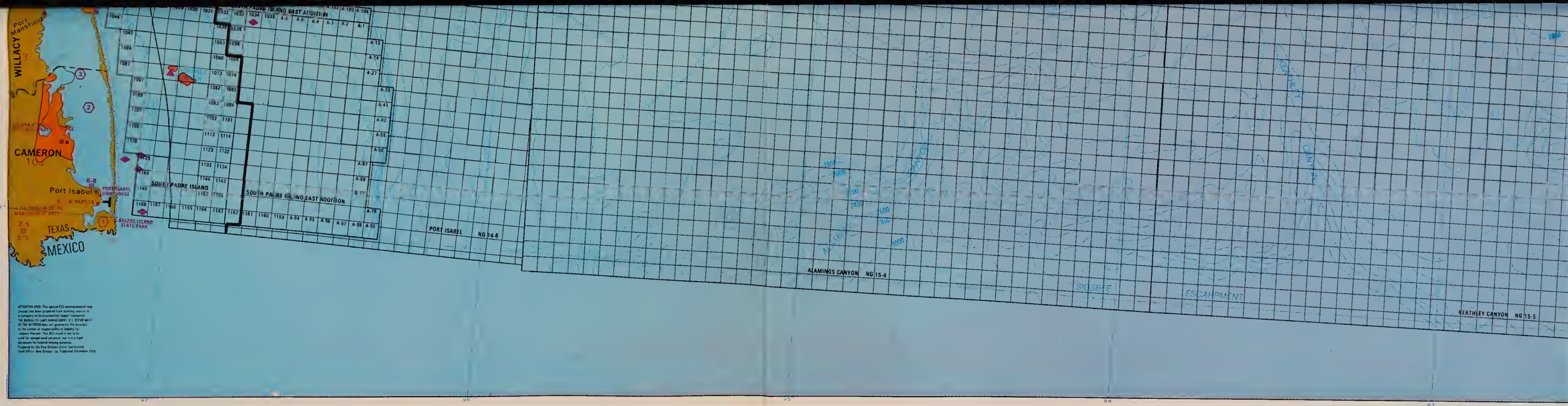
NOTE: SYMBOLS WITH NUMBERS AND LETTERS ARE KEYS ON BACK OF VISUAL

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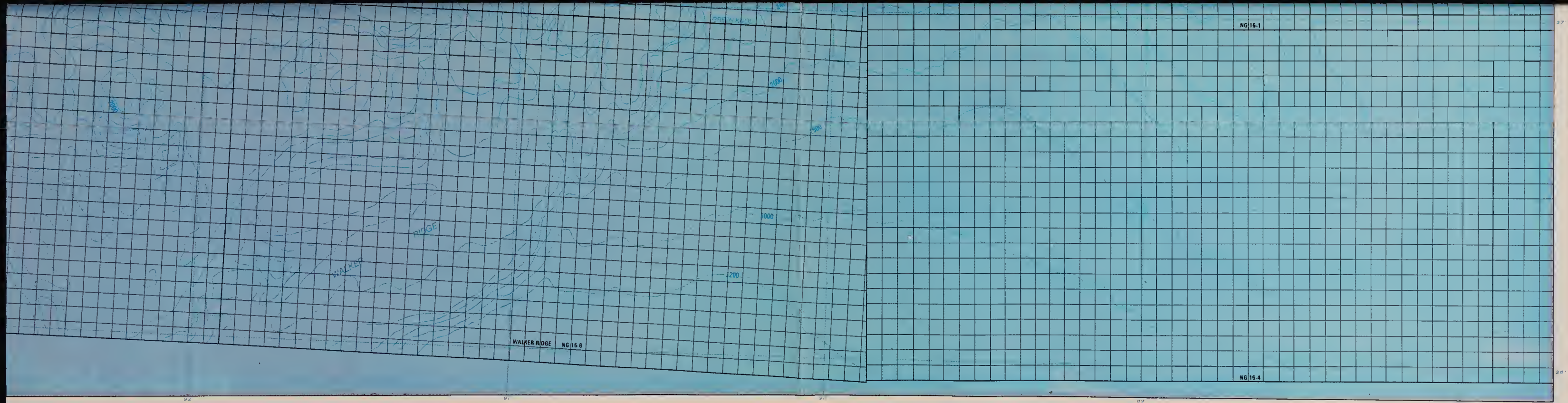
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ATTENTION (PUB) This special OCS environmental map (chart) has been prepared from existing sources to accompany an Environmental Impact Statement. THE BUREAU OF LAMBS AND LIGHTS (U.S. DEPARTMENT OF COMMERCE) does not guarantee the accuracy or the completeness of the information contained herein. The user is advised to use this chart for navigational purposes only and is a legal document for Federal Navy purposes. Prepared by the Hydrographic Office, San Francisco, California. Published December 1979.



REGISTERED AND PROPOSED NATIONAL NATURAL LANDMARKS
(R) = Registered; (P) = Proposed

TEXAS

A. Leguna Atascosa (P)

LOUISIANA

B. Atchafalaya Floodway System (P)
C. Honey Island Swamp (P)

MISSISSIPPI

D. Mississippi Sandhill Crane (P)
E. Pascagoula River Swamp (P)
F. Atlantic White Cedar Area (P)

ALABAMA

G. Mobile-Tensaw River Bottomlands (R) (off map)

NATIONAL AUDUBON SOCIETY SANCTUARIES

TEXAS

1. Three Islands - 2,287 acres
2. Green Island - 1,584 acres
3. South Bird Island - 100 acres
4. Lydia Ann and Harbor Islands - 250 acres
5. Matagorda Island - 5,720 acres
6. Second Chain of Islands - 200 acres
7. West Bay Bird and North Deer Islands - 200 acres
8. Vingt-et-une Islands - 150 acres
9. Sydney Island - 126 acres
10. Sabal Palm Grove - 172 acres

LOUISIANA

11. Rainey Wildlife Sanctuary - 26,800 acres

ALABAMA

12. Dauphin Island Sanctuary - 164 acres

SITES LISTED UNDER THE NATIONAL REGISTER OF HISTORIC PLACES
(N) = Nominated; (E) = Eligible

OCS (Off Texaa)

1. U.S.S. Hatteras

TEXAS

Cameron County

2. Fort Brown
3. Resaca De La Palma Battlefield
4. Old Brulay Plantation
5. Palo Alto Battlefield
6. Point Isabel Lighthouse
7. Brazos Santiago Depot
8. Garcia Pasture Site
321. Browne-Wagner House

Willacy County

9. Mansfield Cut Underwater Archaeological District

Kenedy County

10. King Ranch

Kleberg County

11. Dunn Ranch, Novillo Line Camp

Nueces County

12. Britton-Evans House
13. Nueces County Courthouse

San Patricio County

14. James McGloin Homestead

Aransas County

15. George W. Fulton Mansion
16. T.H. Mathis House
17. Aransas Pass Light Station

Victoria County

18. Fort St. Louis Site
19. Victoria Crist Windmill
322. Old Victoria County Courthouse

Brazoria County

20. John McCroskey Cabin
21. Ammon Underwood House

Galveston County

22. Ashbel Smith Building
23. Ashton Villa
24. Bishop's Palace
25. East End Historic District
26. Galveston Causeway
27. Grace Episcopal Church
28. Grand Opera House
29. Michel B. Menard House
30. Mosquito Fleet Berth, Pier 19
31. Old Galveston Customhouse
32. Powhatan House
33. George Sealy House
34. St. Joseph's Church
35. St. Mary's Cathedral
36. Strand Historic District
37. The McKinney-McDonald House
38. Trueheart-Adriance Building
39. Samuel May Williams House
40. U.S. Custom House
41. Frank B. Davison House
323. Galveston Seawall
324. Garten Verein Pavilion
325. Point Bolivar Lighthouse

Harris County

42. Annunciation Church
43. Antioch Missionary Baptist Church
44. Kellum-Noble House
45. Old Houston National Bank
46. Pillot Building
47. Cleveland Harding Sewall House
48. Sweeney, Coomba & Fredericks Building
49. U.S. Customhouse
50. 1879 Houston Waterworks
51. 1884 Houston Cotton Exchange Building
52. Julia Ideson Building
53. San Jacinto Battlefield
54. U.S.S. Texas
326. Union Station

Chambers County

55. Site 41 CH 110
56. Orcoquisac Archaeological District

Liberty County

57. Site 41 LB 4

Jefferson County

58. McFaddin House Complex
59. French Home Trading Post
60. Lucaa Gusher, Spindletop Oil Field
61. Pompeian Villa

LOUISIANA

Lafayette Parish

62. Alexandre Mouton House
63. Old Lafayette City Hall

Iberia Parish

64. Shadows-on-the-Teche
65. Episcopal Church of the Epiphany
66. Darby Plantation
67. Joseph Jefferson House
68. Enterprise Plantation

St. Martin Parish

69. Acadian House
70. St. Martin of Tours Catholic Church
71. U.S. Post Office
72. Site 16, SM-45 (E)
73. Oaklawn Manor

Assumption Parish

74. Madewood
75. Christ Episcopal Church and Cemetery

Terrebonne Parish

76. Southdown Plantation

St. Charles Parish

77. Destrehan Plantation
78. Homeplace Plantation House

St. John the Baptist Parish

79. Bayou Jasmine Archaeological Site
80. San Franciaco Plantation House

Jefferson Parish

81. Fort Livingston
82. Camp Parapet Powder Magazine

Plaquemines Parish

83. Fort De La Boulaye
84. Fort Jackson
85. Fort St. Philip

St. Bernard Parish

86. Chalmette National Historical Park
87. Magnolia Mound (N)

Orleans Parish

88. Bank of Louisiana
89. Big Oak-Little Oak Islands
90. The Cabildo
91. George Washington Cable House
92. Confederate Memorial Hall
93. James H. Dillard House
94. Faubourg Marigny
95. French Market
96. Callier Hall
97. Callier House
98. The Garden District
99. General Laundry Building
100. Nicholas Girod House
101. Hermann-Grima House
102. Irish Channel Area Architectural District
103. Isaac-Williams Mansion
104. Greenville Hall
105. Jackson Barracks
106. Jackson Square
107. Lafayette Cemetery No. 1
108. Lafitte's Blacksmith Shop
109. Lecarpentier-Beauregard-Keyes House
110. Leeds Iron Foundry
111. Lower Garden District
112. Madam John's Legacy
113. Merleuil House
114. Old Meat Market
115. Old Ursuline Convent
116. Perseverance Hall
117. Pitot House
118. Pontalba Buildings
119. The Presbytere
120. Jean Louis Rabassa House
121. St. Alphonsus Church
122. St. Charles Streetcar Line
123. St. Louis Cemetery No. 2
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125. St. Mary's Assumption Church
126. St. Patrick's Church
127. St. Vincent De Paul Roman Catholic Church
128. Turpin-Kofler-Buja House

129. U.S. Court of Appeals-Fifth Circuit
130. U.S. Customhouse
131. U.S. Mint, New Orleans Branch
132. Vieux Carre Historic District
133. Julia Street Row
327. Saenger Theater
- 134-162. An additional 41 properties in the City of New Orleans have been determined to be eligible for inclusion in the National Register (Federal Register, Vol. 43, No. 26, February 7, 1978).

St. Tammany Parish

163. Grace Memorial Episcopal Church (off map)
164. Abita Springs Pavilion

MISSISSIPPI

Hancock County

165. Jackson Landing Site

Harrison County

166. Beauvoir
167. Biloxi Garden Center
168. Biloxi Lighthouse
169. Gillis House
170. Magnolia House
171. Margaret Emilie
172. Teledano-Philbrick-Tullis House
173. Milner House
174. Fort Massachusetts (Ship Island)

Jackson County

175. Louisville and Nashville Railroad Depot
176. Old Spanish Fort
177. U.S.S. Cairo

ALABAMA

Mobile County (off the map)

178. Fort Louis De La Louisiane
179. Ellicott Stone
181. Barton Academy
182. Battle House Royale
183. Bragg-Mitchell House
184. Brisk & Jacobson Store
185. Carolina Hall
186. Church Street East Historic District
187. De Tonti Square Historic District
188. Fort Conde-Charlotte
189. Gates-Davis House
190. Georgia Cottage
191. Gulf, Mobile, and Ohio Passenger Terminal
192. Martin Horst House
193. Kirkbride House
194. Mobile City Hall
195. Mobile City Hospital
196. Oakleigh
197. Oakleigh Garden Historic District
198. Pincus Building
199. Bishop Portier House
200. Protestant Children's Home
201. Raphael Semmes House
202. South Lafayette Street Creole Cottage
203. Spring Hill College Quadrangle
204. St. Louis Street Missionary Baptist Church
205. U.S. Marine Hospital

Mobile County (Mobile Bay)

206. Middle Bay Light (Mobile Bay)
207. Fort Gaines (Dauphin Island)
180. Indian Mound Park (Dauphin Island)

Baldwin County (off the map)

208. Nanna Hubba Bluff
209. Blakeley
213. Montrose Historic District
214. Bottle Creek Indian Mounds
215. Fort Mims Site

Baldwin County (Mobile Bay)

210. Sand Island Light (Mobile Bay)
211. U.S.S. Tecumseh (Mobile Bay)
212. Fort Morgan (Mobile Bay)

REGISTERED AND PROPOSED NATIONAL NATURAL LANDMARKS
(R) = Registered; (P) = Proposed

TEXAS

- A. Leguna Atascosa (P)

LOUISIANA

- B. Atchafalaya Floodway System (P)
C. Honey Island Swamp (P)

MISSISSIPPI

- D. Mississippi Sandhill Crane (P)
E. Pascagoula River Swamp (P)
F. Atlantic White Cedar Area (P)

ALABAMA

- G. Mobile-Tensaw River Bottomlands (R) (off map)

NATIONAL AUDUBON SOCIETY SANCTUARIES

TEXAS

1. Three Islands - 2,287 acres
2. Green Island - 1,584 acres
3. South Bird Island - 100 acres
4. Lydia Ann and Harbor Islands - 250 acres
5. Matagorda Island - 5,720 acres
6. Second Chain of Islands - 200 acres
7. West Bay Bird and North Deer Islands - 200 acres
8. Vingt-et-une Islands - 150 acres
9. Sydney Island - 126 acres
10. Sabal Palm Grove - 172 acres

LOUISIANA

11. Rainey Wildlife Sanctuary - 26,800 acres

SITES LISTED UNDER THE NATIONAL REGISTER OF HISTORIC PLACES
(N) = Nominated; (E) = Eligible

OCS (Off Texas)

1. U.S.S. Hatteras

TEXAS

Cameron County

2. Fort Brown
3. Resaca De La Palma Battlefield
4. Old Brulay Plantation
5. Palo Alto Battlefield
6. Point Isabel Lighthouse
7. Brazos Santiago Depot
8. Garcia Pasture Site
321. Browne-Wagner House

Willacy County

9. Mansfield Cut Underwater Archaeological District

Kenedy County

10. King Ranch

Kleberg County

11. Dunn Ranch, Novillo Line Camp

Nueces County

12. Britton-Evans House
13. Nueces County Courthouse

San Patricio County

14. James McGloin Homestead

Aransas County

15. George W. Fulton Mansion
16. T.H. Mathis House
17. Aransas Pass Light Station

Victoria County

18. Fort St. Louis Site
19. Victoria Grist Windmill
322. Old Victoria County Courthouse

Brazoria County

20. John McCroskey Cabin
21. Ammon Underwood House

Galveston County

22. Ashbel Smith Building
23. Ashton Villa
24. Bishop's Palace
25. East End Historic District
26. Galveston Causeway
27. Grace Episcopal Church
28. Grand Opera House
29. Michel B. Menard House
30. Mosquito Fleet Berth, Pier 19
31. Old Galveston Customhouse
32. Powhatan House
33. George Sealy House
34. St. Joseph's Church
35. St. Mary's Cathedral
36. Strand Historic District
37. The McKinney-McDonald House
38. Trueheart-Adriance Building
39. Samuel May Williams House
40. U.S Custom House
41. Frank B. Davison House
323. Galveston Seawall
324. Garten Verein Pavilion
325. Point Bolivar Lighthouse

Jefferson County

- 58. McFaddin House Complex
- 59. French Home Trading Post
- 60. Lucas Gusher, Spindletop Oil Field
- 61. Pompeian Villa

LOUISIANA

Lafayette Parish

- 62. Alexandre Mouton House
- 63. Old Lafayette City Hall

Iberia Parish

- 64. Shadows-on-the-Teche
- 65. Episcopal Church of the Epiphany
- 66. Darby Plantation
- 67. Joseph Jefferson House
- 68. Enterprise Plantation

St. Martin Parish

- 69. Acadian House
- 70. St. Martin of Tours Catholic Church
- 71. U.S. Post Office
- 72. Site 16, SM-45 (E)
- 73. Oaklawn Manor

Assumption Parish

- 74. Madewood
- 75. Christ Episcopal Church and Cemetery

Terrebonne Parish

- 76. Southdown Plantation

St. Charles Parish

- 77. Destrehan Plantation
- 78. Homeplace Plantation House

St. John the Baptist Parish

- 79. Bayou Jasmine Archaeological Site
- 80. San Francisco Plantation House

Jefferson Parish

- 81. Fort Livingston
- 82. Camp Parapet Powder Magazine

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- 84. Fort Jackson
- 85. Fort St. Philip

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- 203. Spring Hill College Quadrangle
- 204. St. Louis Street Missionary Baptist Church
- 205. U.S. Marine Hospital

Mobile County (Mobile Bay)

- 206. Middle Bay Light (Mobile Bay)
- 207. Fort Gaines (Dauphin Island)
- 180. Indian Mound Park (Dauphin Island)

Baldwin County (off the map)

- 208. Nanna Hubba Bluff

ALABAMA

12. Dauphin Island Sanctuary - 164 acres

Harris County

- 42. Annunciation Church
- 43. Antioch Missionary Baptist Church
- 44. Kellum-Noble House
- 45. Old Houston National Bank
- 46. Pillot Building
- 47. Cleveland Harding Sewall House
- 48. Sweeney, Coombs & Fredericks Building
- 49. U.S. Customhouse
- 50. 1879 Houston Waterworks
- 51. 1884 Houston Cotton Exchange Building
- 52. Julia Ideson Building
- 53. San Jacinto Battlefield
- 54. U.S.S. Texas
- 326. Union Station

Chambers County

- 55. Site 41 CH 110
- 56. Orcoquisac Archaeological District

Liberty County

- 57. Site 41 LB 4

106. Jackson Square
107. Lafayette Cemetery No. 1
108. Lafitte's Blacksmith Shop
109. Lecarpentier-Beauregard-Keyes House
110. Leeds Iron Foundry
111. Lower Garden District
112. Madam John's Legacy
113. Merieult House
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116. Perseverance Hall
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UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE
WESTERN AND CENTRAL GULF OF MEXICO

COASTAL ZONE, OFFSHORE FISHERIES AND EPA DUMPING SITES

VISUAL NO. 8

COUNTY BOUNDARIES
WHITE SHRIMP GROUNDS
BROWN SHRIMP GROUNDS
WHITE SHRIMP SPAWNING AREA
ROYAL RED SHRIMP GROUNDS

NMFS FISHING GRID ZONES
GENERAL INSHORE HARVEST AND ESTUARINE NURSERY AREAS
FINFISH GROUNDS
CRAWFISH GROUNDS

WATER DEPTH (METERS)
CLOSED TO SHELLFISH OYSTER HARVESTING
MAJOR OYSTER GROUNDS
EPA APPROVED OCEAN DUMPING SITES
PROTECTED AREAS OF BIOLOGICAL SIGNIFICANCE

NOTES

PIE CHART REPRESENTS THE PERCENTAGE COMPOSITION OF THE MOST ABUNDANT SPECIES OF THE TOTAL CATCH. THE TOTAL CATCH EXPRESSED IN TERMS OF WEIGHT INCLUDES ALL FINFISH, SHELLFISH, ETC. CAPTURED WITHIN THE ZONE. THE NUMBER ABOVE THE CHART IS THE GRID ZONE NUMBER, AND THE NUMBER BELOW IS THE MEAN CATCH IN MILLIONS OF POUNDS FOR THE YEARS 1968 THROUGH 1974.

SOURCES

ALABAMA DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES
MISSISSIPPI GAME AND FISH COMMISSION
TEXAS PARKS AND WILDLIFE DEPARTMENT
U.S. DEPARTMENT OF THE INTERIOR, FISH AND WILDLIFE SERVICE, WASHINGTON, D.C.

U.S. DEPARTMENT OF COMMERCE, NOAA, NMFS, WASHINGTON, D.C.
MISSISSIPPI RIVER TO GALVESTON, U.S. DEPT. OF COMMERCE, NOAA, NATIONAL OCEAN SURVEY, NOS #1134 (1972)
GALVESTON TO RIO GRANDE, U.S. DEPT. OF COMMERCE, NOAA, NATIONAL OCEAN SURVEY, NOS #1174 (1972)
OUTER CONTINENTAL SHELF RESOURCE MANAGEMENT MAP, U.S. DEPT. OF COMMERCE, NOAA, GARDEN BANKS #15 2 (OCS), CORPUS CHRISTI #14 3, PORT ISABEL #14 6, EAST BREAKS BAY CITY #15 1, GREEN CANYON (NEW ORLEANS #11) #15 3, MISSISSIPPI CANYON (MOBILE SOUTH #2) #15 10 (1975)
TEXAS A&M UNIVERSITY SEA GRANT PROGRAM
TEXAS GULF COAST 6 OFFSHORE FISHING CHART, GALVESTON TO MATAGORDA, GALVESTON TO ARANAS PASS, MATAGORDA TO BROWNSVILLE, GALVESTON TO WORGAN CITY, LA. (1972)
TEXAS GULF COAST OFFSHORE FISHING CHART, SABINE PASS TO RIO GRANDE, TIDEWATER FISHING PUB., INC. (1972)
U.S. ENVIRONMENTAL PROTECTION AGENCY, ATLANTA, GA.

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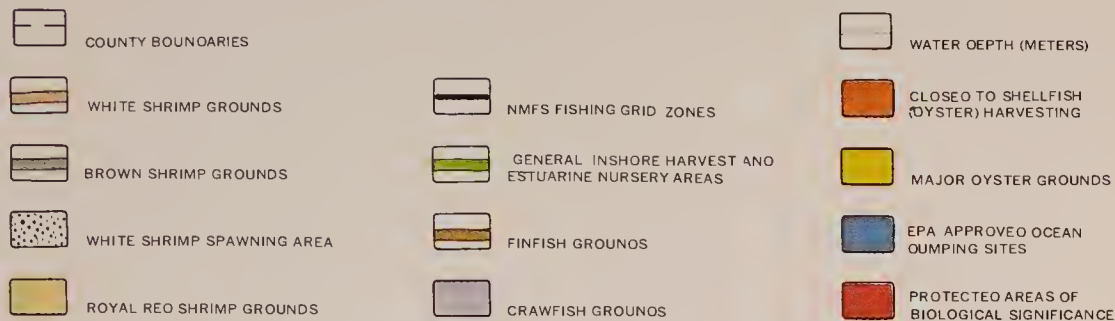
SCALE 1:1,000,000 (APPROX.)

Printed in Conjunction With Proposed OCS Lease Sale

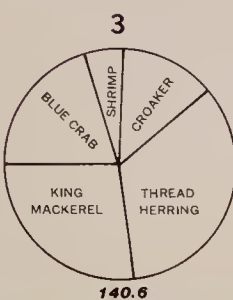


UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE
WESTERN AND CENTRAL GULF OF MEXICO
COASTAL ZONE, OFFSHORE FISHERIES AND EPA DUMPING SITES

VISUAL NO. 5



SOURCES:
ALABAMA DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES, MONTGOMERY, ALA. AND DAUPHIN ISLAND, ALA.
LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES, NEW ORLEANS, LA.
MISSISSIPPI GAME AND FISH COMMISSION, JACKSON, MISS.
TEXAS PARKS AND WILDLIFE DEPARTMENT, AUSTIN, TEX.
U.S. DEPARTMENT OF THE INTERIOR, FISH AND WILDLIFE SERVICE, WASHINGTON, D.C.
U.S. DEPARTMENT OF COMMERCE, NOAA, NMFS, WASHINGTON, D.C.
MISSISSIPPI RIVER TO GALVESTON, U.S. DEPT. OF COMMERCE, NOAA, NATIONAL OCEAN SURVEY, NOS #1116A (1972)
GALVESTON TO RIO GRANDE, U.S. DEPT. OF COMMERCE, NOAA, NATIONAL OCEAN SURVEY, NOS #1117A (1972)
OUTER CONTINENTAL SHELF RESOURCE MANAGEMENT MAP, U.S. DEPT. OF COMMERCE, NOAA, GARDEN BANKS #NG 15-2 (OCS), CORPUS CHRISTI #NG 14-3; PORT ISABEL #NG 14-6, EAST BREAKS (BAY CITY) #NG 15-1, GREEN CANYON (NEW ORLEANS #1) #NG 15-3, MISSISSIPPI CANYON (MOBILE SOUTH #2) #NH 16-10 (1975)
TEXAS A&M UNIVERSITY SEA GRANT PROGRAM
TEXAS GULF COAST & OFFSHORE FISHING CHART, GALVESTON TO MATAGORDA; GALVESTON TO ARANSAS PASS; MATAGORDA TO BROWNSVILLE; GALVESTON TO MORGAN CITY, LA. (1972).
TEXAS GULF COAST OFFSHORE FISHING CHART, SABINE PASS TO RIO GRANDE; TIDEWATER FISHING PUB., INC. (1972).
U.S. ENVIRONMENTAL PROTECTION AGENCY ATLANTA, GA.

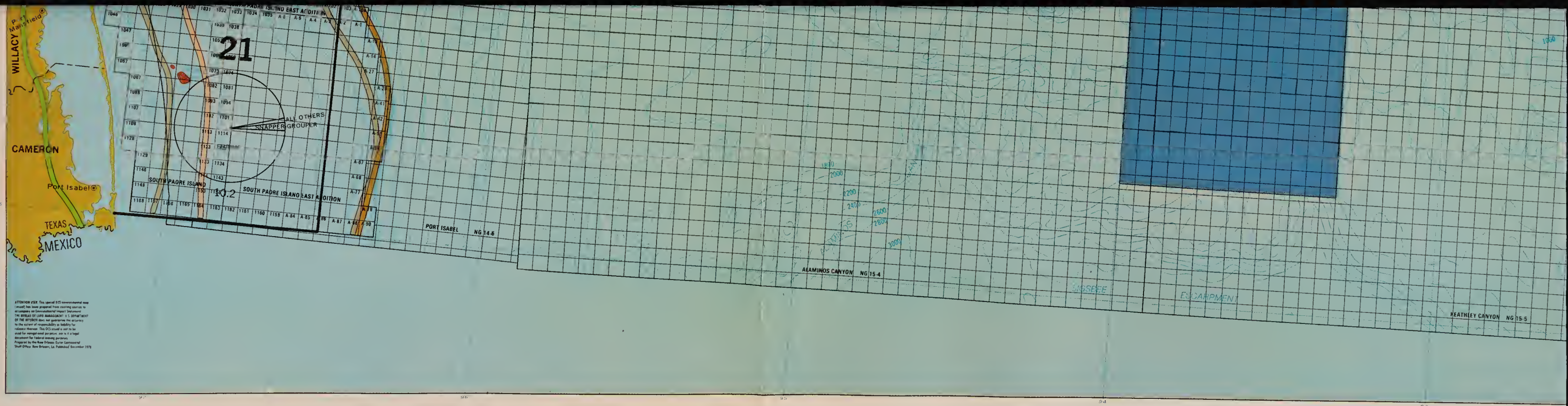


NOTES:
PIE DIAGRAM REPRESENTS THE PERCENTAGE COMPOSITION OF THE MOST ABUNDANT SPECIES OF THE TOTAL CATCH. THE TOTAL CATCH EXPRESSED IN TERMS OF WEIGHT, INCLUDES ALL FINFISH, SHELLFISH, ETC. CAPTURED WITHIN THE ZONE. THE NUMBER ABOVE THE CIRCLE IS THE GRID ZONE NUMBER, AND THE NUMBER BELOW IS THE MEAN CATCH (IN MILLIONS OF POUNDS) FOR THE YEARS 1968 THROUGH 1974.

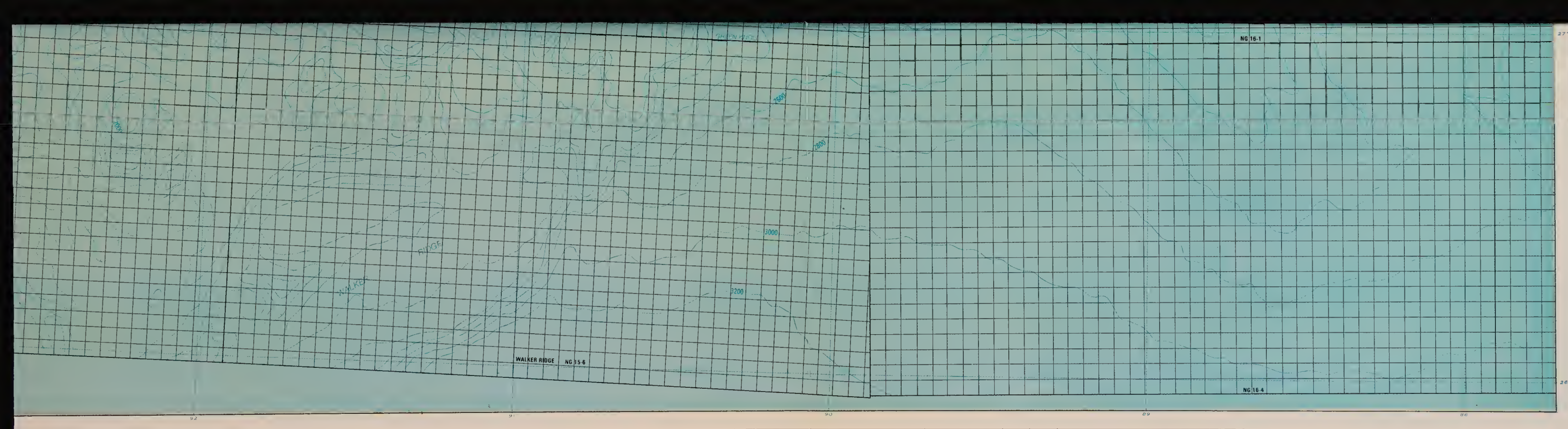
STATUTE MILES 0 10 20 30 40 50 SCALE 1:1,000,000 (APPROX.) Prepared In Conjunction With Proposed OCS Lease Sales







ATTENTION USER: This special NCT administrative map
revised has been prepared from existing charts to
provide an Environmental Impact Statement
THE BUREAU OF LAND MANAGEMENT U.S. DEPARTMENT
OF THE INTERIOR does not guarantee the accuracy
to the extent of responsibility in liability for
release thereon. This NCT is not to be
used for navigational purposes, nor is it a legal
document for Federal zoning purposes.
Prepared by the New Orleans Civil Engineering
Staff Office, New Orleans, LA. Published December 1975



27°

26°

VISUAL NO. 6

WATER DEPTH (METERS)

URBAN

PUBLIC AND SEMI PUBLIC

AGRICULTURAL

WOODLAND

SWAMP AND MARSH LAND

SOURCES

REGIONAL LAND USE PLAN FOR HANCOCK HARRIS PEARL RIVER AND JACKSON COUNTIES - MISSISSIPPI 1973

GUADALUPE PLANNING COMMISSION REGIONAL MAP 1968

SOUTH ALABAMA REGIONAL PLANNING COMMISSION

INVENTORY OF BASIC ENVIRONMENTAL DATA - SOUTHEASTERN ALABAMA 1973

ARMY CORPS OF ENGINEERS EXISTING LAND USE STUDY 1974

IMPERIAL CALIFORNIA REGIONAL PLANNING AND DEVELOPMENT COMMISSION 1960

CURRENT LAND MAPS 1975

TEXAS GENERAL REGIONAL LAND MANAGEMENT PROGRAM

ACACIQUANA LAND USE MAP 1974

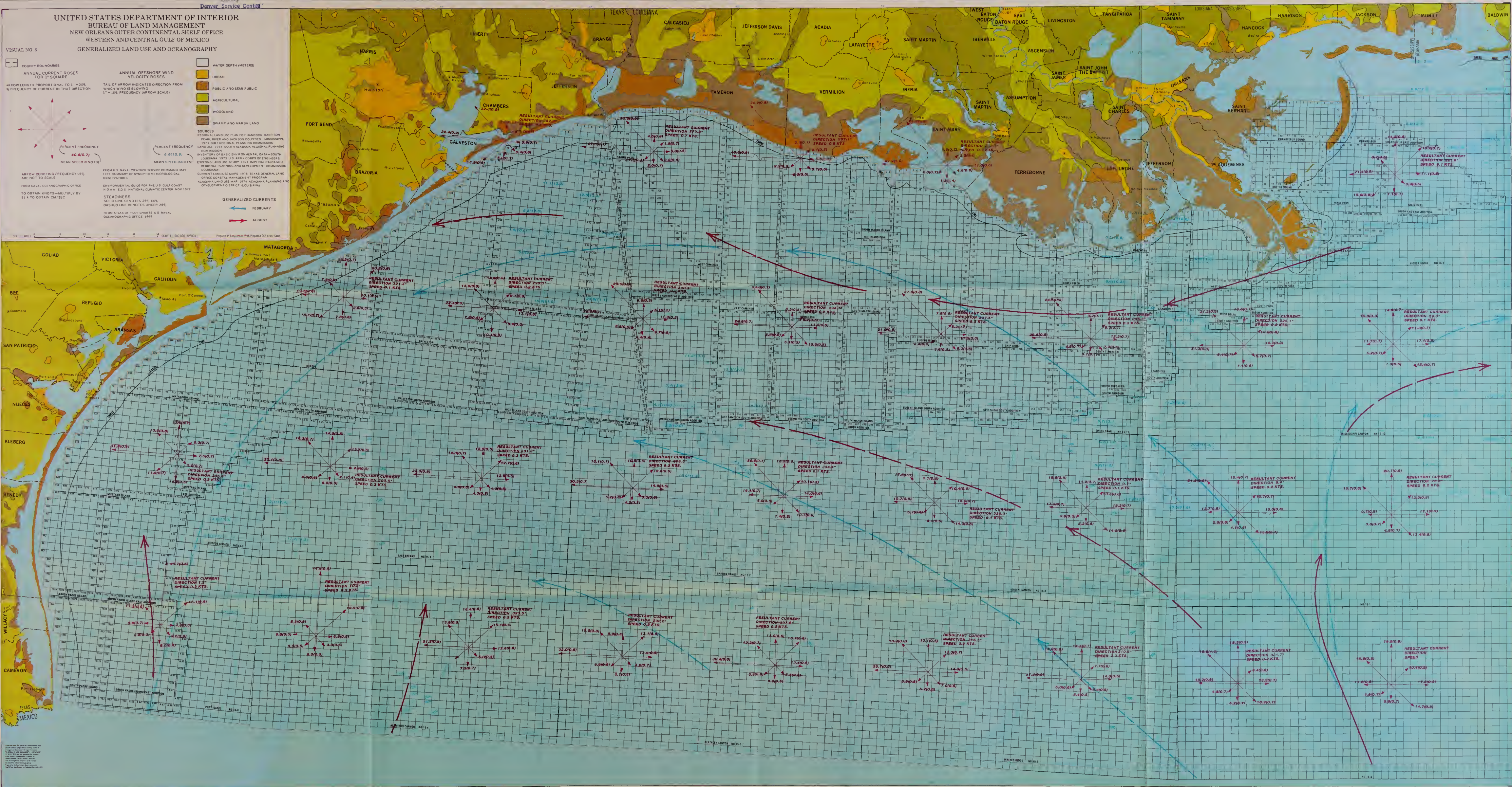
ACACIQUANA PLANNING DEVELOPMENT DISTRICT (ALABAMA)

GENERALIZED CURRENTS

← FEBRUARY

GENERALIZED CURRENTS

← FEBRUARY



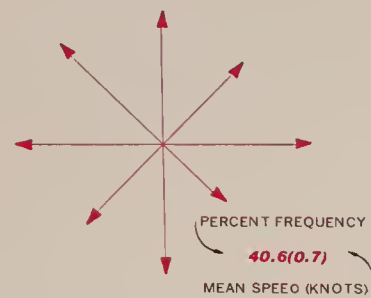
UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE
WESTERN AND CENTRAL GULF OF MEXICO
GENERALIZED LAND USE AND OCEANOGRAPHY

VISUAL NO. 6

COUNTY BOUNDARIES

ANNUAL CURRENT ROSES
FOR 1° SQUARE

ARROW LENGTH PROPORTIONAL TO 1" = 20%
% FREQUENCY OF CURRENT IN THAT DIRECTION



ARROW DENOTES FREQUENCY > 5%
ARE NOT TO SCALE

FROM NAVAL OCEANOGRAPHIC OFFICE

TO OBTAIN KNOTS—MULTIPLY BY
51.4 TO OBTAIN CM/SEC

ANNUAL OFFSHORE WIND
VELOCITY ROSES

TAIL OF ARROW INDICATES DIRECTION FROM
WHICH WIND IS BLOWING
1" = 10% FREQUENCY (ARROW SCALE)



FROM U.S. NAVAL WEATHER SERVICE COMMAND, MAY,
1975 SUMMARY OF SYNOPTIC METEOROLOGICAL
OBSERVATIONS

ENVIRONMENTAL GUIDE FOR THE U.S. GULF COAST
N.O.A., E.D.S., NATIONAL CLIMATIC CENTER, NOV 1972.

STEADINESS
SOLID LINE DENOTES 25% 50%
DASHED LINE DENOTES UNDER 25%

FROM ATLAS OF PILOT CHARTS, U.S. NAVAL
OCEANOGRAPHIC OFFICE, 1969.

WATER DEPTH (METERS)

URBAN
PUBLIC AND SEMI PUBLIC
AGRICULTURAL
WOODLAND
SWAMP AND MARSH LAND

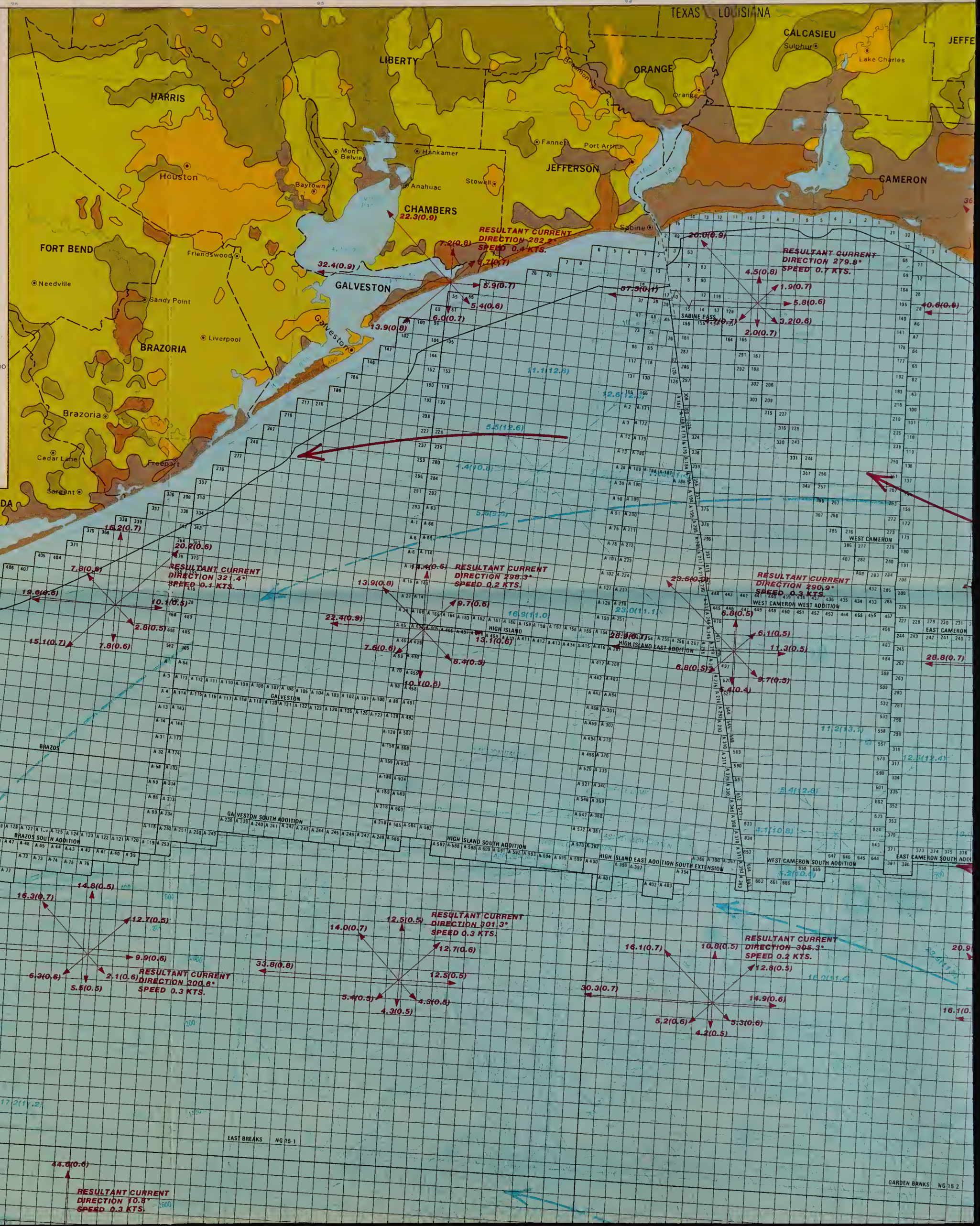
SOURCES:
REGIONAL LAND USE PLAN FOR HANCOCK, HARRISON,
PEARL RIVER AND JACKSON COUNTIES, MISSISSIPPI,
1973 GULF REGIONAL PLANNING COMMISSION
LAND USE 1968 SOUTH ALABAMA REGIONAL PLANNING
COMMISSION
INVENTORY OF BASIC ENVIRONMENTAL DATA—SOUTH
LOUISIANA, 1973 U.S. ARMY CORPS OF ENGINEERS
EXISTING LAND USE STUDY 1974 IMPERIAL CALCASIEU
REGIONAL PLANNING AND DEVELOPMENT COMMISSION,
(LOUISIANA)
CURRENT LAND USE MAPS, 1975, TEXAS GENERAL LAND
OFFICE COASTAL MANAGEMENT PROGRAM
ACADIANA LAND USE MAP, 1974, ACADIANA PLANNING AND
DEVELOPMENT DISTRICT, (LOUISIANA)

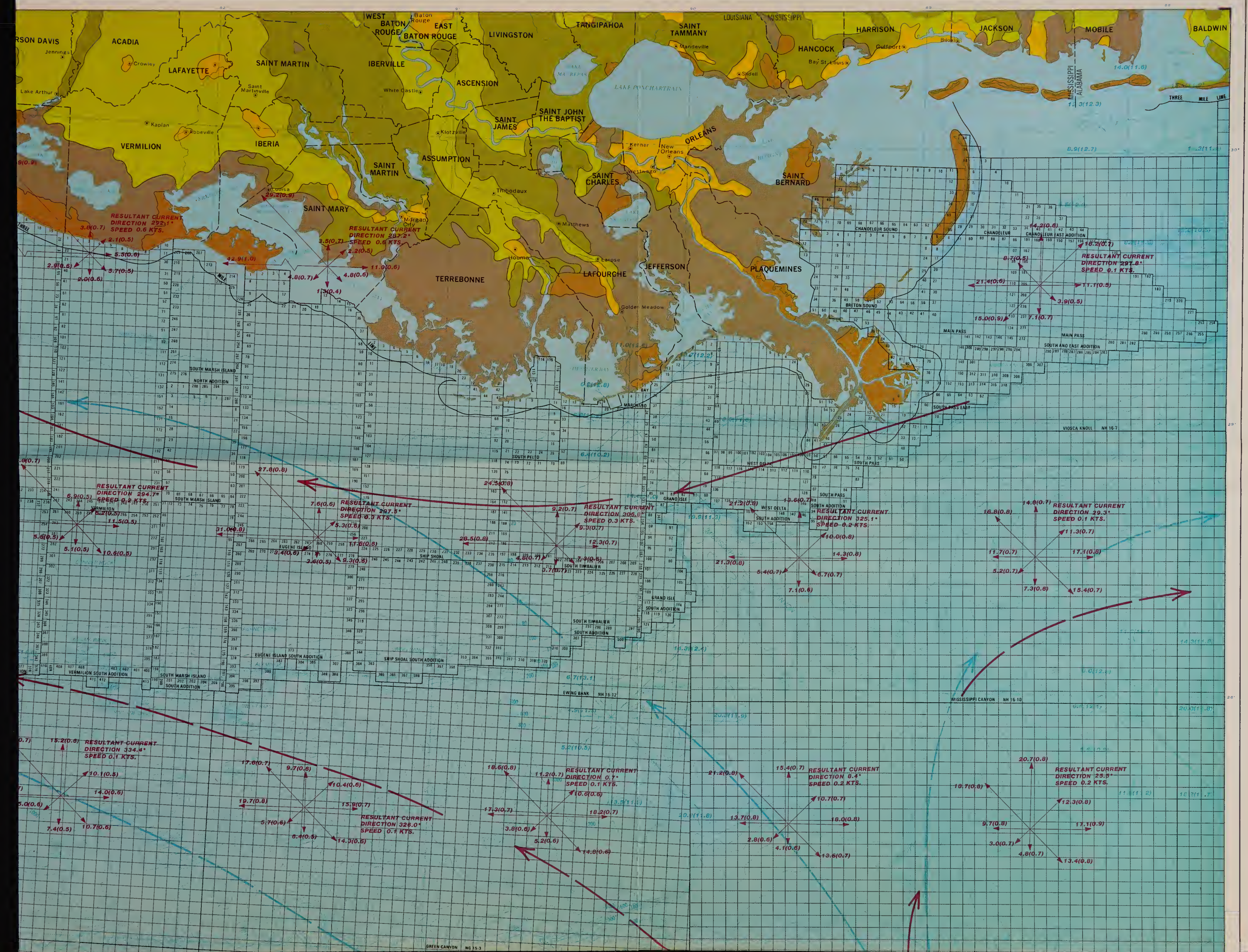
GENERALIZED CURRENTS

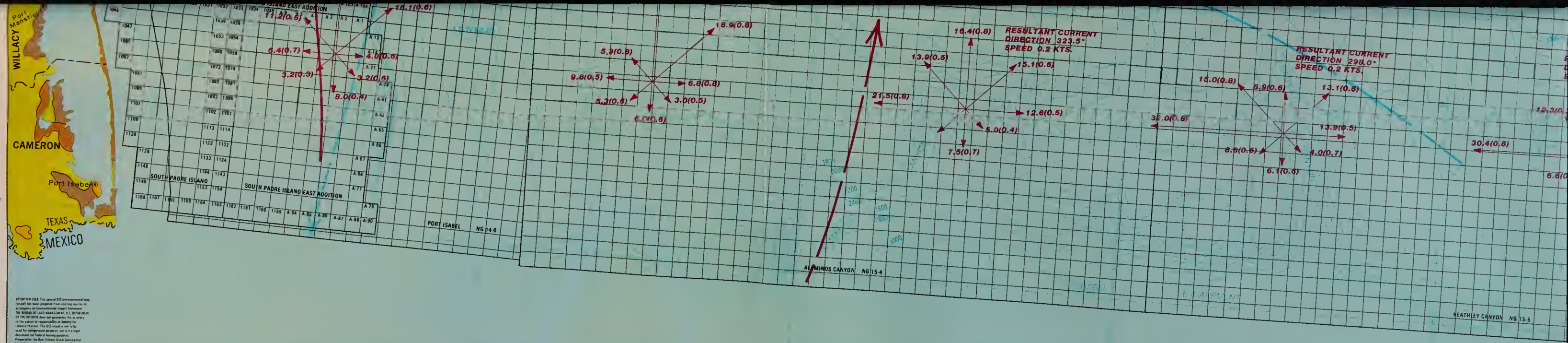
FEBRUARY

AUGUST

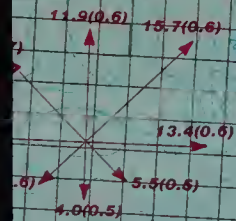
Prepared In Conjunction With Proposed OCS Lease Sales



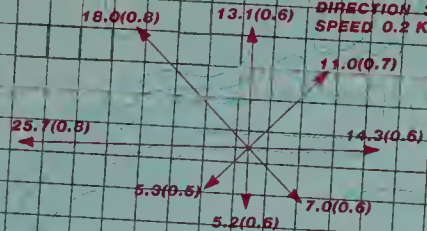




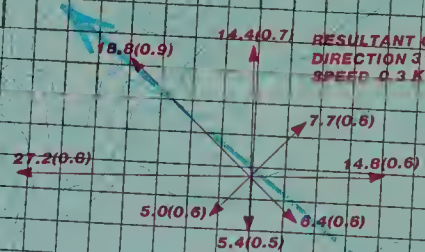
RESULTANT CURRENT
DIRECTION 307.6°
SPEED 0.2 KTS.



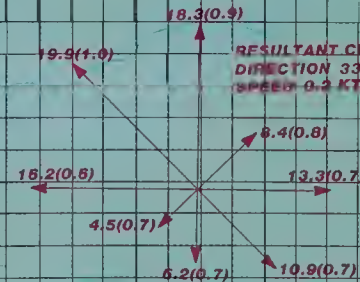
RESULTANT CURRENT
DIRECTION 316.3°
SPEED 0.2 KTS.



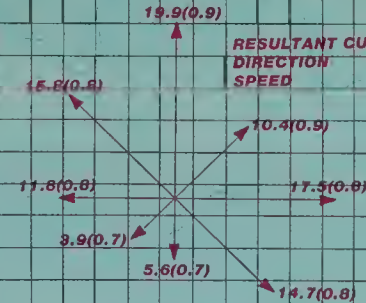
RESULTANT CURRENT
DIRECTION 310.5°
SPEED 0.3 KTS.



RESULTANT CURRENT
DIRECTION 331.7°
SPEED 0.2 KTS.



RESULTANT CURRENT
DIRECTION
SPEED



WALKER RIDGE NG 15-6

NG 16-4

UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE
WESTERN AND CENTRAL GULF OF MEXICO
INFRASTRUCTURE, ACCIDENTS AND UNDERSEA FEATURES

- | | | |
|-------------------------------------|--|---|
| COUNTY BOUNDARIES | AIRPORT | WATER DEPTH (METERS) |
| GAS PIPELINES | INTERSTATE HIGHWAY | BLOWOUTS |
| GAS PROCESSING PLANTS | RAILROAD | EXPLOSIONS AND FIRES |
| OIL PIPELINES | INTERCOASTAL WATERWAY | SIGNIFICANT POLLUTION INCIDENTS
(50 BARRELS (2,100 GAL.) OR MORE) |
| OIL REFINERY | PORT | MAJOR ACCIDENTS (FATALITY, PLATFORM
DESTRUCTION, OR SPILLS OVER 238
BARRELS (9,100 GAL.)) |
| PIPELINE CONSTRUCTION YARD | PROPOSED DEEPWATER PORT | PROTECTED AREAS OF
BIOLOGICAL SIGNIFICANCE |
| OFFSHORE PLATFORM CONSTRUCTION SITE | SAFE/FAIRWAY AND ANCHORAGE
FOR DEEPWATER PORT | |
| OFFSHORE PLATFORMS | | |

STATUTE MILES 0 10 20 30 SCALE 1:500,000 (APPROX.)

Projections: Contiguous with Proposed GCS Least Sides



UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE
WESTERN AND CENTRAL GULF OF MEXICO
INFRASTRUCTURE, ACCIDENTS AND UNDERSEA FEATURES

VISUAL NO. 7

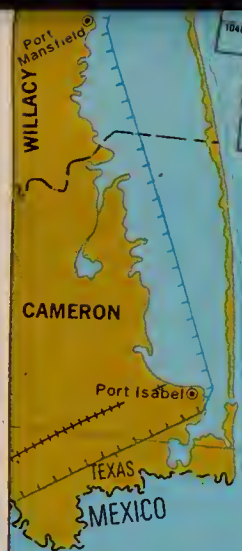


STATUTE MILES 0 10 20 30 40 50 SCALE 1:1,000,000 (APPROX.)

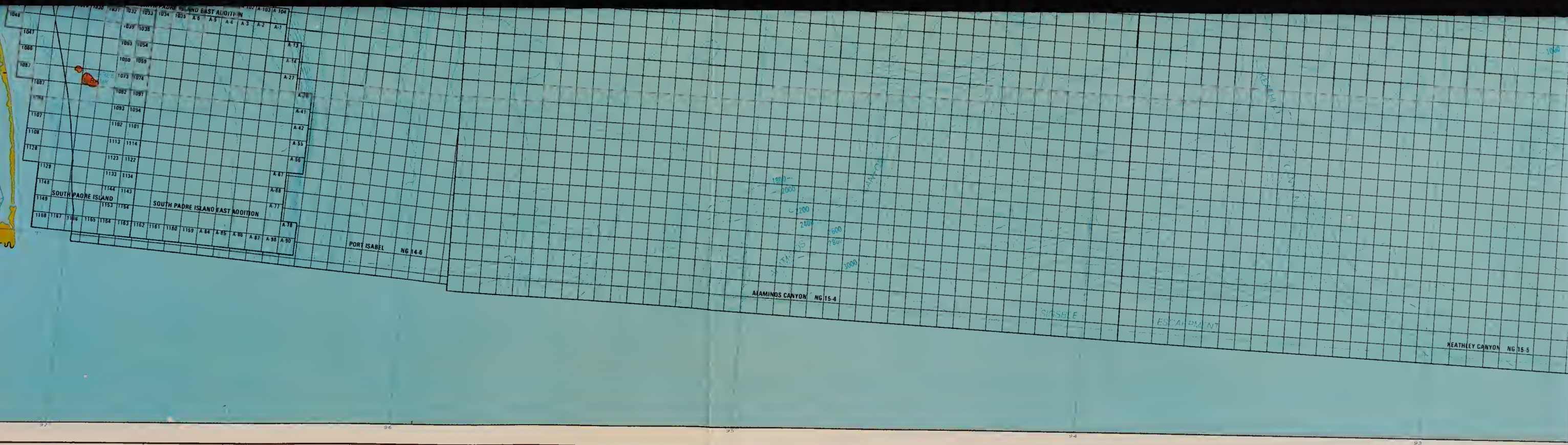
Prepared In Conjunction With Proposed OCS Lease Sales

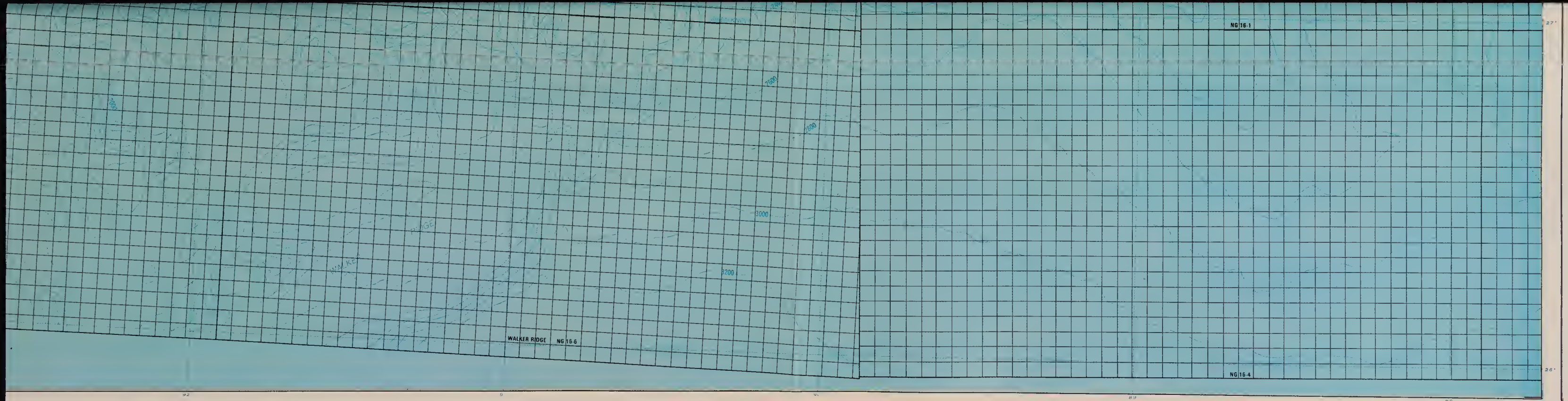






ATTENTION: This special OCS environmental map (front) has been prepared from existing sources in accordance with Environmental Impact Statement. THE BUREAU OF OCEAN MANAGEMENT'S REPRESENTATION OF THE OCEANIC DOES NOT GUARANTEE THE ACCURACY OF THE DATA OR RESPONSIBILITY OR LIABILITY FOR OCEANIC DATA. This OCS map is not to be used for navigational purposes, nor is it a legal document for Federal funding purposes. Prepared by the New Orleans River Commission Staff Office, New Orleans, LA. Published December 1979.





INFRASTRUCTURE

OIL REFINERIES

COMPANY	LOCATION
<u>ALABAMA</u>	
LOUISIANA LAND & EXPLORATION CO. MARION CORP.	MOBILE THEODORE
<u>MISSISSIPPI</u>	
AMERADA HESS CORP. STANDARD OIL OF KENTUCKY	PURVIS PASCACOLA
<u>LOUISIANA</u>	
CANAL REFINING CO. CITIES SERVICE OIL CO. CONTINENTAL OIL CO. CONTINENTAL OIL CO. ECOL LTD EVANGELINE REFINING CO. INC. EXXON CO. GOOD HOPE REFINERIES INC. GULF OIL CORP. GULF OIL CORP. LA. JET INC. MURPHY OIL CORP. PLACID REFINING CORP. SHELL OIL CO. TENNECO OIL CO. TEXACO INC.	CHURCH POINT LAKE CHARLES EGAN WESTLAKE GARYVILLE JENNINGS BATON ROUGE GOOD HOPE BELLE CHASSE VENICE ST. JAMES MERAUX PORT ALLEN NORCO CHALMETTE CONVENT
<u>TEXAS</u>	
AMERICAN PETROFINA CO. OF TEXAS AMOCO OIL CO. ATLANTIC RICHFIELD CO. CHAMPLIN PETROLEUM CO. CHARTER INTERNATIONAL OIL CO. COASTAL STATES PETROCHEMICAL CO. CROWN CENTRAL PETROLEUM CO. EDDY REFINING CO. EXXON CO. GULF OIL CORP.	PORT ARTHUR TEXAS CITY HOUSTON CORPUS CHRISTI HOUSTON CORPUS CHRISTI PASADENA HOUSTON BAYTOWN PORT ARTHUR
MARATHON OIL CO. MOBIL OIL CORP. MONSANTO CHEMICAL CO. PHILLIPS PETROLEUM CO. QUINTANA-HOWELL JOINT VENTURE SABER PETROLEUM CORP. SHELL OIL CO. SOUTHWESTERN REFINING CO. SUN OIL CO. TEXACO INC. TEXACO INC. TEXAS CITY REFINING, INC. UNION OIL OF CALIFORNIA UNION TEXAS PETROLEUM	TEXAS CITY BEAUMONT ALVIN SWEENEY CORPUS CHRISTI CORPUS CHRISTI DEER PARK CORPUS CHRISTI CORPUS CHRISTI PORT ARTHUR PORT NECHES TEXAS CITY NEDERLAND WENNIE

GAS PROCESSING PLANTS

ALABAMA

<u>MOBILE COUNTY</u>
CITIES SERVICE OIL CITRONELLE PLANT

LOUISIANA

<u>ST. BERNARD PARISH</u>
SHELL TOCA PLANT SHELL YSCLOSKEY PLANT SOUTHERN NATURAL GAS TOCA PLANT

PLAQUEMINES PARISH

GETTY OIL BASTIAN BAY PLANT GETTY OIL VENICE PLANT GULF ENERGY & MINERALS SE BASTIAN BAY PLANT CULF ENERGY & MINERALS VENICE PLANT

JEFFERSON PARISH

EXXON GRAND ISLE PLANT

LAFOURCHE PARISH

AMOCO PRODUCTION LAKE BOEUF PLANT EXXON THIBODAUX PLANT LIQUID PRODUCTS RECOVERY INC. BOURG PLANT LIQUID PRODUCTS NAPOLEONVILLE NO. 1 PLANT
--

ST. CHARLES PARISH

SHELL NORCO FRACTIONATOR PLANT TEXACO INC. PARADISE PLANT
--

TERREBONNE PARISH

EXXON LIRETTE PLANT GETTY OIL HOLLYWOOD PLANT LOUISIANA LAND AND EXPLORATION POINT AU CHEIN PLANT PLACID OIL LAPEYROUSE PLANT SHELL OIL NORTH TERREBONNE PLANT SHELL OIL TIMBALIER BAY PLANT SUPERIOR OIL BAYOU PENCHANT PLANT
--

SUPERIOR OIL FOUR ISLE PLANT UNION OIL OF CALIFORNIA HOUMA PLANT

ASCENSION PARISH

MOBIL OIL RIVERSIDE FRACTIONATION PLANT SHELL TEBONE FRACTIONATOR PLANT
--

ST. JAMES PARISH

CITIES SERVICE OIL ST. AMELIA PLANT EXXON COLLEGE POINT PLANT LIQUID PRODUCTS RECOVERY VACHERIE PLANT MID LOUISIANA GAS KENMORE PLANT SHELL OIL LAPLACE PLANT

ASSUMPTION PARISH

LIQUID PRODUCTS RECOVERY NAPOLEONVILLE NO. 2 E. BATON ROUGE PARISH MULLINS & PRITCHARD BURTVILLE PLANT W. BATON ROUGE PARISH NO NAME 2 PLANTS
--

IBERVILLE PARISH

SHELL OIL BAYOU GOULA PLANT

ST. MARTIN PARISH

KERR-MCGEE CORP. BAYOU CROOK CHENE PLANT SHELL OIL VERRET PLANT NO NAME PLANT

ST. MARY PARISH

ATLANTIC RICHFIELD BAYOU SALE PLANT EXXON OIL GARDEN CITY PLANT PLACID OIL PATTERSON PLANT SHELL OIL CALUMET PLANT SUN OIL BAYOU SALE PLANT TEXACO INC. FLOODWAY PLANT

IBELEA PARISH

EXXON AVERY ISLAND PLANT KOCH OIL BAYOU POSTILLION PLANT SHELL OIL WEEKS ISLAND PLANT

ST. LANDRY PARISH

EXXON OPELOUSAS PLANT GETTY OIL OPELOUSAS PLANT GULF ENERGY & MINERALS KROTZ SPRINGS PLANT NO NAME PLANT

LAFAYETTE PARISH

SUN OIL MAURICE PLANT

VERMILION PARISH

AMOCO PRODUCTION TSMA PLANT MOBIL OIL COW ISLAND PLANT PHILLIPS PETROLEUM VERMILION PLANT SUPERIOR POL GUEYDAN PLANT TEXACO INC. HENRY PLANT TEXACO INC. SEA ROBIN PLANT

ACADIA PARISH

CITIES SERVICE CROWLEY PLANT CONTINENTAL OIL ACADIA PLANT LA GIORIA OIL & GAS RAYNE PLANT SHELL OIL MERMENTAU PLANT UNION TEXAS PETROLEUM EUNICE PLANT UNION TEXAS PETROLEUM RAYNE PLANT

JEFFERSON DAVIS PARISH

AMOCO PRODUCTION SOUTH JENNINGS PLANT AMOCO PRODUCTION SOUTH THORNWELL PLANT PHILLIPS PETROLEUM ROLLOVER PLANT SHELL OIL IOWA PLANT TEXACO INC. SOUTH LAKE ARTHUR PLANT

CAMERON PARISH

AMOCO PRODUCTION BIC LAKE PLANT AMOCO PRODUCTION SOUTH PECAN LAKE PLANT CHEVRON OIL WEST CAMERON PLANT CONTINENTAL OIL GRAND CHENIER PLANT CRYSTAL OIL KINGS BAYOU PLANT LIQUID PRODUCTS RECOVERY SOUTH GRAND CHENIER PLANT MOBIL OIL CAMERON PLANT SHELL OIL BLACK BAYOU PLANT SHELL OIL CHALKEY PLANT SHELL OIL KINGS BAYOU PLANT
--

SKELLY OIL CAMERON PLANT SOHIO PETROLEUM GRAND CHENIER PLANT SUPERIOR OIL LOWRY PLANT WARREN PETROLEUM JOHNSON BAYOU PLANT

CALCASIEU PARISH

AMOCO PRODUCTION SOUTH MANCHESTER PLANT CONTINENTAL OIL CO. GILLIS PLANT CITIES SERVICE OIL LAKE CHARLES PLANT
--

TEXAS

JEFFERSON COUNTY

CONTINENTAL OIL PORT PLANT (PORT ARTHUR) COSDEN OIL & CHEMICAL PLANT EXXON CORP. LOVELL LAKE PLANT EXXON CORP. AMELIA PLANT MARRS MCLEAN WINNE PLANT MARRS MCLEAN DRYEX PLANT
--

CHAMBERS COUNTY

CITIES SERVICE OIL MONT BELVIEU PLANT EXXON CORP. ANAHUAC PLANT GETTY OIL UMBRELLA POINT PLANT HUSTON OIL & MINERALS SMITH POINT PLANT UNITED TEXAS TRANSMISSION GALVESTON BAY PLANT
--

GALVESTON COUNTY

AMOCO GAS TEXAS CITY EXTRACTION PLANT SOUTH GILLOCK CYCLING PLANT CHARTER OIL RESOURCES ALTA LOMA PLANT NORTH TEXAS LPG CORP. GALVESTON PLANT
--

BRAZORIA COUNTY

AMOCO PRODUCTION HASTINGS GASOLINE PLANT AMOCO PRODUCTION OLD OCEAN PLANT EXXON CORP. PELDGER PLANT HNG PETROCHEMICALS INC. LIVERPOOL PLANT PHILLIPS PETROLEUM ALVIN PLANT PHILLIPS PETROLEUM BRAZORIA PLANT NO NAME PLANT
--

MATAGORDA COUNTY

AMOCO PRODUCTION EAST BAY CITY PLANT EXXON SUGAR VALLEY PLANT LO VACA GATHERING BAY CITY PLANT MONSANTO E. MATON PLANT TENNECO LEABO PLANT TEXACO BLESSING PLANT MARATHON OIL MARKHAM PLANT

CALHOUN COUNTY

ALUMINUM CO. OF AMERICA ALCOA PLANTS EXXON HEYSER PLANT EXXON KELLERS BAY PLANT CITIES SERVICE OIL SAN ANTONIO BAY PLANT

ARANSAS COUNTY

TENNECO OIL PEARCE PLANT

SAN PATRICIO COUNTY

ATLANTIC RICHFIELD TAFT PLANT CITIES SERVICE OIL CORPUS BAY PLANT HNG PETROCHEMICALS GREGORY PLANT MANATHON OIL WELDER PLANT SUN OIL RED FISH BAY PLANT SUPERIOR OIL PORTILLA PLANT WARREN PETROLEUM ENCINAL PLANT
--

NUECES COUNTY

AMOCO PRODUCTION LUBY PLANT CHAMPLINE PETROLEUM GULF PLAINS PLANT CITIES SERVICE ROBTOWN PLANT HNG PETRO CHEMICALS TOBTOWN PLANT LO-VACA GATHERING CORPUS CHRISTI PLANT SUN OIL LUBY PLANT TENNECO OIL DEAN PLANT NO NAME PLANT

KLEBERG COUNTY

EXXON KING RANCH PLANT CITIES SERVICE MAY PLANT
--

KENEDY COUNTY

EXXON SARITA PLANT

WILLACY COUNTY

AMOCO PRODUCTION LA SAL VIEJA FIELD AMOCO PRODUCTION WILLAMAR MIOCENE PLANT
--

PIPELINE CONSTRUCTION YARDS

LOUISIANA	LOCATION
BROWN AND ROOT BROWN AND ROOT MCDERMOTT MCDERMOTT MCDERMOTT	BELLE CHASSE INTERCOASTAL CITY HARVEY MORGAN CITY NEW IBERIA
<u>TEXAS</u>	
BROWN AND ROOT BROWN AND ROOT	PORT O'CONNOR SABINE PASS

OFFSHORE PLATFORM CONSTRUCTION FACILITIES

LOUISIANA	LOCATION
AVONDALE SHIPBUILDING AVONDALE SHIPBUILDING BENOIT MACHINE DELTA FABRICATION DUPONT FABRICATORS MCDERMOTT FABRICATORS MCDERMOTT FABRICATORS TELEDYNE MOVIBLE WILLIAMS-MCWILLIAMS WILLIAMS-MCWILLIAMS	MORGAN CITY HARVEY HOUMA HOUMA AMELIA MORGAN CITY HARVEY MORGAN CITY HARVEY NEW ORLEANS
<u>TEXAS</u>	
BROWN AND ROOT BROWN AND ROOT GULFCO LIVINGSTON	HOUSTON HARBOR ISLAND FREEPORT ORANGE

INFRASTRUCTURE

OIL REFINERIES

COMPANY

LOCATION

ALABAMA

LOUISIANA LAND & EXPLORATION CO.
MARION CORP.

MOBILE
THEODORE

MISSISSIPPI

AMERADA HESS CORP.
STANDARD OIL OF KENTUCKY

PURVIS
PASCAGOULA

LOUISIANA

CANAL REFINING CO.
CITIES SERVICE OIL CO.
CONTINENTAL OIL CO.
CONTINENTAL OIL CO.
ECOL LTD
EVANGELINE REFINING CO. INC.
EXXON CO.
GOOD HOPE REFINERIES INC.
GULF OIL CORP.
GULF OIL CORP.
LA. JET INC.
MURPHY OIL CORP.
PLACID REFINING CORP.
SHELL OIL CO.
TENNECO OIL CO.
TEXACO INC.

CHURCH POINT
LAKE CHARLES
EGAN
WESTLAKE
GARYVILLE
JENNINGS
BATON ROUGE
GOOD HOPE
BELLE CHASSE
VENICE
ST. JAMES
MERAUX
PORT ALLEN
NORCO
CHALMETTE
CONVENT

TEXAS

AMERICAN PETROFINA CO. OF TEXAS
AMOCO OIL CO.
ATLANTIC RICHFIELD CO.
CHAMPLIN PETROLEUM CO.
CHARTER INTERNATIONAL OIL CO.
COASTAL STATES PETROCHEMICAL CO.
CROWN CENTRAL PETROLEUM CO.
EDDY REFINING CO.
EXXON CO.
GULF OIL CORP.

PORT ARTHUR
TEXAS CITY
HOUSTON
CORPUS CHRISTI
HOUSTON
CORPUS CHRISTI
PASADENA
HOUSTON
BAYTOWN
PORT ARTHUR

MARATHON OIL CO.
MOBIL OIL CORP.
MONSANTO CHEMICAL CO.
PHILLIPS PETROLEUM CO.
QUINTANA-HOWELL JOINT VENTURE
SABER PETROLEUM CORP.
SHELL OIL CO.
SOUTHWESTERN REFINING CO.
SUN OIL CO.
TEXACO INC.
TEXACO INC.
TEXAS CITY REFINING, INC.
UNION OIL OF CALIFORNIA
UNION TEXAS PETROLEUM

TEXAS CITY
BEAUMONT
ALVIN
SWEENY
CORPUS CHRISTI
CORPUS CHRISTI
DEER PARK
CORPUS CHRISTI
CORPUS CHRISTI
PORT ARTHUR
PORT NECHES
TEXAS CITY
NEDERLAND
WINNIE

GAS PROCESSING PLANTS

ALABAMA

MOBILE COUNTY

CITIES SERVICE OIL CITRONELLE PLANT

LOUISIANA

TERREBONNE PARISH

EXXON LIRETTE PLANT
GETTY OIL HOLLYWOOD PLANT
LOUISIANA LAND AND EXPLORATION POINT AU CHEIN PLANT
PLACID OIL LAPEYROUSE PLANT
SHELL OIL NORTH TERREBONNE PLANT
SHELL OIL TIMBALIER BAY PLANT
SUPERIOR OIL BAYOU PENCHANT PLANT

SUPERIOR OIL FOUR ISLE PLANT
UNION OIL OF CALIFORNIA HOUMA PLANT

ASCENSION PARISH

MOBIL OIL RIVERSIDE FRACTIONATION PLANT
SHELL TEBONE FRACTIONATOR PLANT

ST. JAMES PARISH

CITIES SERVICE OIL ST. AMELIA PLANT
EXXON COLLEGE POINT PLANT
LIQUID PRODUCTS RECOVERY VACHERIE PLANT
MID LOUISIANA GAS KENMORE PLANT
SHELL OIL LAPLACE PLANT

ASSUMPTION PARISH

LIQUID PRODUCTS RECOVERY NAPOLEONVILLE NO. 2
E. BATON ROUGE PARISH
MULLINS & PRITCHARD BURTVILLE PLANT
W. BATON ROUGE PARISH NO NAME 2 PLANTS

IBERVILLE PARISH

SHELL OIL BAYOU GOULA PLANT

ST. MARTIN PARISH

KERR-MCGEE CORP. BAYOU CROOK CHENE PLANT
SHELL OIL VERRET PLANT
NO NAME PLANT

ST. MARY PARISH

ATLANTIC RICHFIELD BAYOU SALE PLANT
EXXON OIL GARDEN CITY PLANT
PLACID OIL PATTERSON PLANT
SHELL OIL CALUMET PLANT
SUN OIL BAYOU SALE PLANT
TEXACO INC. FLOODWAY PLANT

IBELEA PARISH

EXXON AVERY ISLAND PLANT
KOCH OIL BAYOU POSTILLION PLANT
SHELL OIL WEEKS ISLAND PLANT

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EXXON OPELOUSAS PLANT
GETTY OIL OPELOUSAS PLANT
GULF ENERGY & MINERALS KROTZ SPRINGS PLANT
NO NAME PLANT

LAFAYETTE PARISH

SUN OIL MAURICE PLANT

VERMILION PARISH

AMOCO PRODUCTION TSMA PLANT
MOBIL OIL COW ISLAND PLANT
PHILLIPS PETROLEUM VERMILION PLANT
SUPERIOR POL GUEYDAN PLANT
TEXACO INC. HENRY PLANT
TEXACO INC. SEA ROBIN PLANT

SKELLY OIL CAMERON PLANT
SOHIO PETROLEUM GRAND CHENIER PLANT
SUPERIOR OIL LOWRY PLANT
WARREN PETROLEUM JOHNSON BAYOU PLANT

CALCASIEU PARISH

AMOCO PRODUCTION SOUTH MANCHESTER PLANT
CONTINENTAL OIL CO. GILLIS PLANT
CITIES SERVICE OIL LAKE CHARLES PLANT

TEXAS

JEFFERSON COUNTY

CONTINENTAL OIL PORT PLANT (PORT ARTHUR)
COSDEN OIL & CHEMICAL PLANT
EXXON CORP. LOVELL LAKE PLANT
EXXON CORP. AMELIA PLANT
MARRS MCLEAN WINNE PLANT
MARRS MCLEAN DRYEX PLANT

CHAMBERS COUNTY

CITIES SERVICE OIL MONT BELVIEU PLANT
EXXON CORP. ANAHUAC PLANT
GETTY OIL UMBRELLA POINT PLANT
HUSTON OIL & MINERALS SMITH POINT PLANT
UNITED TEXAS TRANSMISSION GALVESTON BAY PLANT

GALVESTON COUNTY

AMOCO GAS TEXAS CITY EXTRACTION PLANT
SOUTH GILLOCK CYCLING PLANT
CHARTER OIL RESOURCES ALTA LOMA PLANT
NORTH TEXAS LPG CORP. GALVESTON PLANT

BRAZORIA COUNTY

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AMOCO PRODUCTION OLD OCEAN PLANT
EXXON CORP. PELDGER PLANT
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PHILLIPS PETROLEUM ALVIN PLANT
PHILLIPS PETROLEUM BRAZORIA PLANT
NO NAME PLANT

MATAGORDA COUNTY

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TENNECO LEABO PLANT
TEXACO BLESSING PLANT
MARATHON OIL MARKHAM PLANT

CALHOUN COUNTY

ALUMINUM CO. OF AMERICA ALCOA PLANTS
EXXON HEYSER PLANT
EXXON KELLERS BAY PLANT
CITIES SERVICE OIL SAN ANTONIO BAY PLANT

ARANSAS COUNTY

TENNECO OIL PEARCE PLANT

SAN PATRICIO COUNTY

ATLANTIC RICHFIELD TAFT PLANT
CITIES SERVICE OIL CORPUS BAY PLANT
HNG PETROCHEMICALS GREGORY PLANT
MANATHON OIL WELDER PLANT
SUN OIL RED FISH BAY PLANT
SUPERIOR OIL PORTILLA PLANT
WARREN PETROLEUM ENCINAL PLANT

NUECES COUNTY

AMOCO PRODUCTION LUBY PLANT
CHAMPAGNE PETROLEUM GULF PLAINS PLANT

PIPELINE CONSTRUCTION YARDS

LOCATION

LOUISIANA

BROWN AND ROOT
BROWN AND ROOT
MCDERMOTT
MCDERMOTT
MCDERMOTT

BELLE CHASSE
INTERCOASTAL CITY
HARVEY
MORGAN CITY
NEW IBERIA

TEXAS

BROWN AND ROOT
BROWN AND ROOT

PORT O'CONNOR
SABINE PASS

OFFSHORE PLATFORM CONSTRUCTION FACILITIES

LOCATION

LOUISIANA

AVONDALE SHIPBUILDING
AVONDALE SHIPBUILDING
BENOIT MACHINE
DELTA FABRICATION
DUPONT FABRICATORS
MCDERMOTT FABRICATORS
MCDERMOTT FABRICATORS
TELEDYNE MOVIBLE
WILLIAMS-MCWILLIAMS
WILLIAMS-MCWILLIAMS

MORGAN CITY
HARVEY
HOUMA
HOUMA
AMELIA
MORGAN CITY
HARVEY
MORGAN CITY
HARVEY
NEW ORLEANS

TEXAS

ST. BERNARD PARISH

SHELL TOCA PLANT
SHELL YSCLOSKEY PLANT
SOUTHERN NATURAL GAS TOCA PLANT

PLAQUEMINES PARISH

GETTY OIL BASTIAN BAY PLANT
GETTY OIL VENICE PLANT
GULF ENERGY & MINERALS SE BASTIAN BAY PLANT
GULF ENERGY & MINERALS VENICE PLANT

JEFFERSON PARISH

EXXON GRAND ISLE PLANT

LAFOURCHE PARISH

AMOCO PRODUCTION LAKE BOEUF PLANT
EXXON THIBODAUX PLANT
LIQUID PRODUCTS RECOVERY INC. BOURG PLANT
LIQUID PRODUCTS NAPOLEONVILLE NO. 1 PLANT

ST. CHARLES PARISH

SHELL NORCO FRACTIONATOR PLANT
TEXACO INC. PARADISE PLANT

ACADIA PARISH

CITIES SERVICE CROWLEY PLANT
CONTINENTAL OIL ACADIA PLANT
LA GIORIA OIL & GAS RAYNE PLANT
SHELL OIL MERMENTAU PLANT
UNION TEXAS PETROLEUM EUNICE PLANT
UNION TEXAS PETROLEUM RAYNE PLANT

JEFFERSON DAVIS PARISH

AMOCO PRODUCTION SOUTH JENNINGS PLANT
AMOCO PRODUCTION SOUTH THORNWELL PLANT
PHILLIPS PETROLEUM ROLLOVER PLANT
SHELL OIL IOWA PLANT
TEXACO INC. SOUTH LAKE ARTHUR PLANT

CAMERON PARISH

AMOCO PRODUCTION BIG LAKE PLANT
AMOCO PRODUCTION SOUTH PECAN LAKE PLANT
CHEVRON OIL WEST CAMERON PLANT
CONTINENTAL OIL GRAND CHENIER PLANT
CRYSTAL OIL KINGS BAYOU PLANT
LIQUID PRODUCTS RECOVERY SOUTH GRAND CHENIER PLANT
MOBIL OIL CAMERON PLANT
SHELL OIL BLACK BAYOU PLANT
SHELL OIL CHALKEY PLANT
SHELL OIL KINGS BAYOU PLANT

CITIES SERVICE ROBSTOWN PLANT
HNG PETRO CHEMICALS TOBSTOWN PLANT
LO-VACA GATHERIING CORPUS CHRISTI PLANT
SUN OIL LUBY PLANT
TENNECO OIL DEAN PLANT NO NAME PLANT

KLEBERG COUNTY

EXXON KING RANCH PLANT
CITIES SERVICE MAY PLANT

KENEDY COUNTY

EXXON SARITA PLANT

WILLACY COUNTY

AMOCO PRODUCTION LA SAL VIEJA FIELD
AMOCO PRODUCTION WILLAMAR MIOCENE PLANT

BROWN AND ROOT
BROWN AND ROOT
GULFCO
LIVINGSTON

HOUSTON
HARBOR ISLAND
FREEPORT
ORANGE

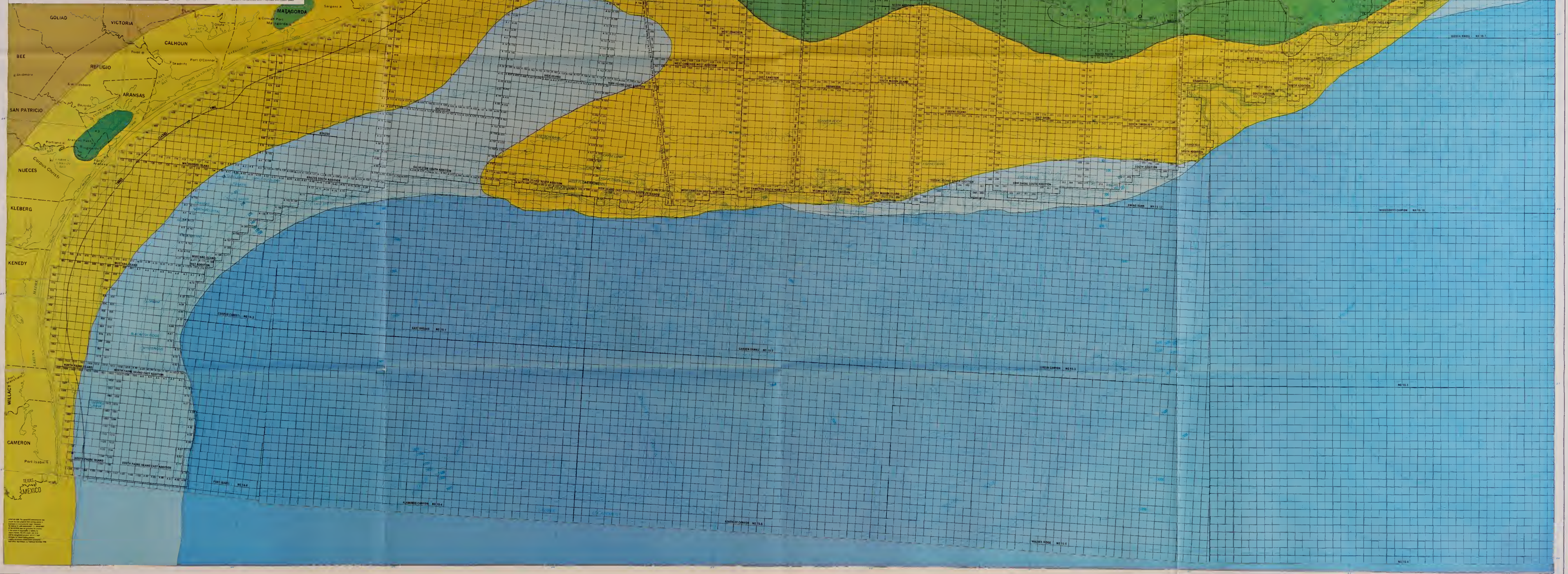
UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE
WESTERN AND CENTRAL GULF OF MEXICO
GEOTHERMAL AND GEOPRESSURE ZONES

- VISUAL NO. 8
- COUNTY BOUNDARIES
- WATER DEPTH (METERS)
- LARGE MAPPED GEOPRESSURED AQUIFERS - LSU
 - AREAS OF POSSIBLE GEOPRESSURE INTEREST - LSU
 - GRUY FEDERAL - ERGA WELL OF OPPORTUNITY PROGRAM
 - PROPOSED PRIORITY OF THE UNIVERSITY OF TEXAS GEOTHERMAL TEST AREAS
 - HIGH POTENTIAL GEOTHERMAL AREAS
 - OTHER POTENTIAL GEOTHERMAL AREAS
 - UNKNOWN POTENTIAL GEOTHERMAL AREAS

STATUTE MILES 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 600 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 800 810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990 1000








Scale: 1:500,000 APPROX.

Prepared by Louisiana State University Geology Department, 1979



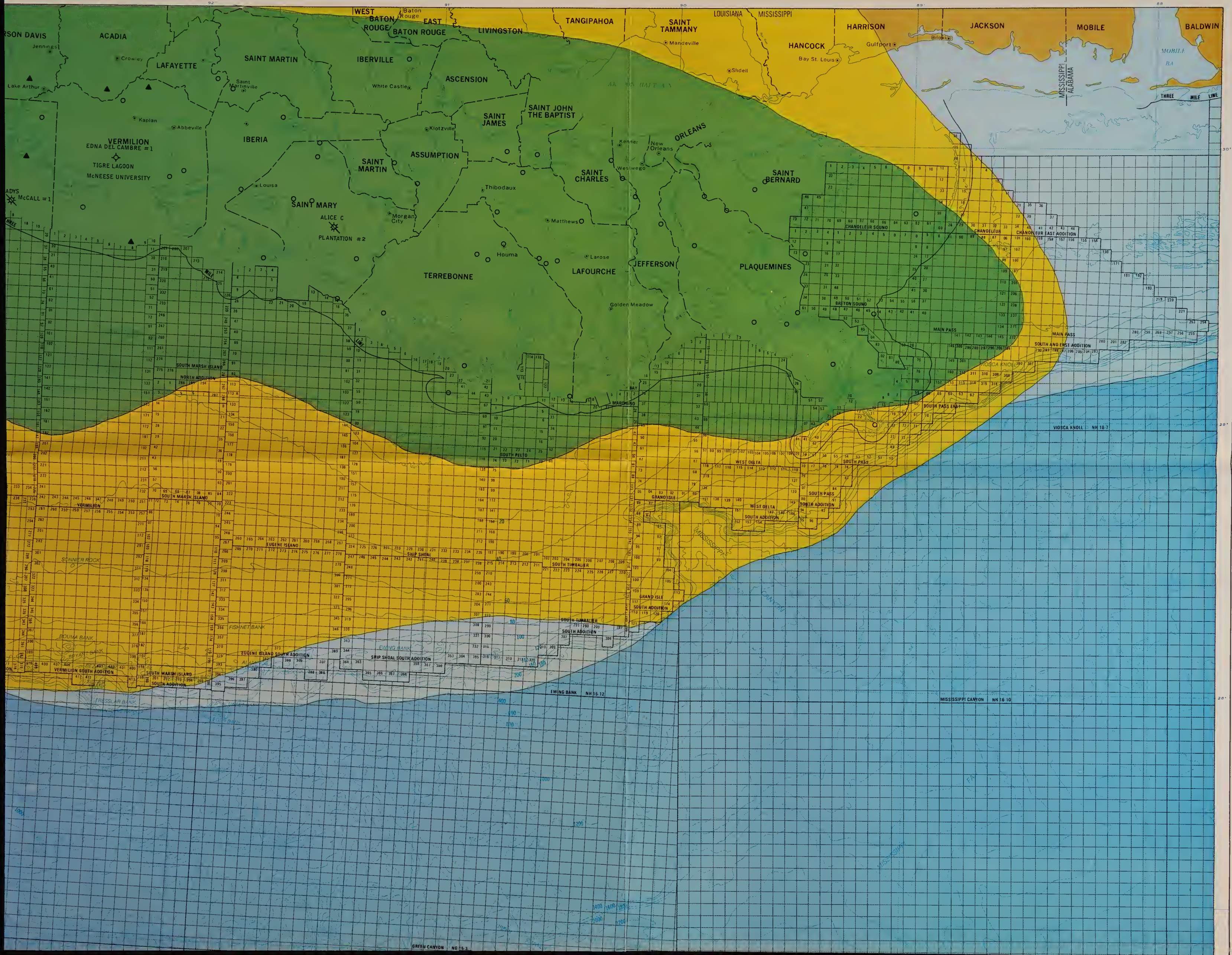
VISUAL NO. 8

 COUNTY BOUNDARIES WATER DEPTH (METERS)

-  LARGE MAPPED GEOPRESSURED AQUIFERS – LSU
-  AREAS OF POSSIBLE GEOPRESSURE INTEREST – LSU
-  GRUY FEDERAL – ERDA WELL OF OPPORTUNITY PROGRAM
-  PROPOSED PRIORITY OF THE UNIVERSITY OF TEXAS GEOTHERMAL TEST AREAS
-  HIGH POTENTIAL GEOTHERMAL AREAS
-  OTHER POTENTIAL GEOTHERMAL AREAS
-  UNKNOWN POTENTIAL GEOTHERMAL AREAS

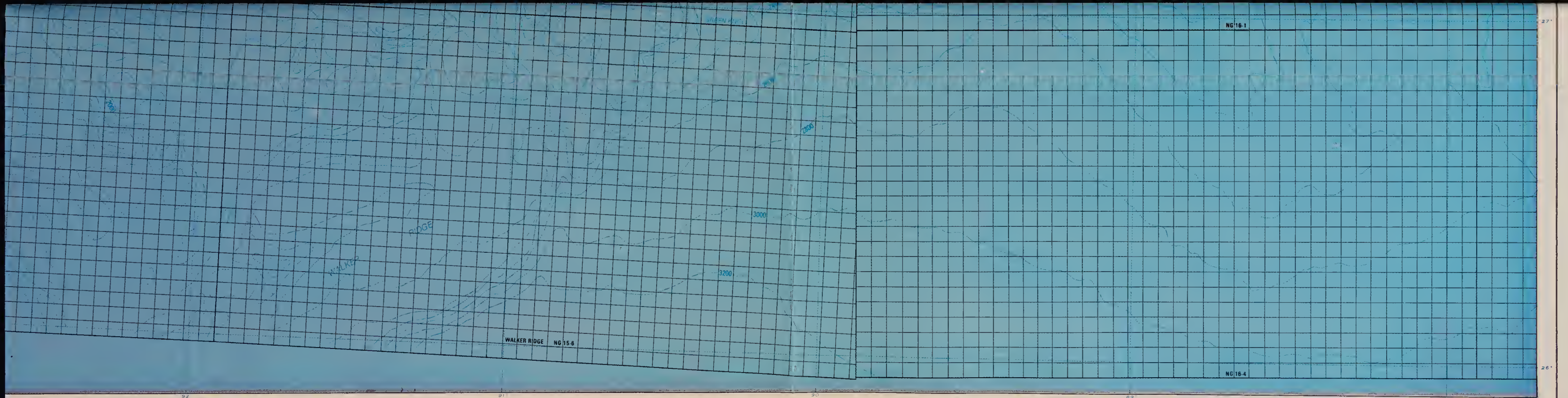
STATUTE MILES 0 10 20 30 40 50 SCALE 1:1,000,000 (APPROX.) Prepared In Conjunction With Proposed OCS Lease Sales







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OVERLAY OF PROPOSED TRACTS OCS SALE NO. 58A

1 TRACT NUMBERS

NOTE: PROVIDED AS AN OVERLAY FOR VISUALS NO. 1-8

NO. 18

1
2
3
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OVERLAY OF PROPOSED TRACTS OCS SALE NO. 58A

1 TRACT NUMBERS

NOTE: PROVIDED AS AN OVERLAY FOR VISUALS NO. 1-8

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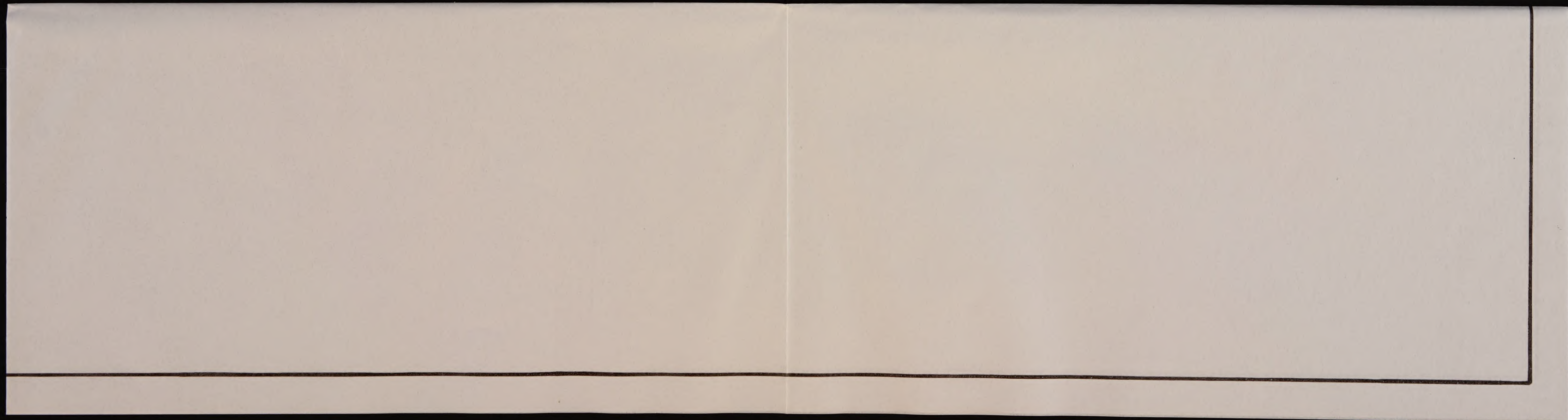
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